## Ve 370 Project 2

# Simulation and FPGA Implementation of a Single-cycle and Pipelined CPU Design

## **Final Report**

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# 1. Objective

- To deepen understanding to single-cycle CPU and pipelined CPU.
- To practice building a single-cycle CPU and pipelined CPU which can implement a basic subset of MIPS instructions including "add", "sub", "and", "or", "addi", "beq", "slt", "lw", "sw" and "j" using Verilog with Xilinx ISE Design Suite.
- To simulate the behavior of the CPU using Isim.
- To implement the CPU on a Xilinx FPGA board.

# 2. Background

CPU A central processing unit (CPU) is the hardware in a computer that stores a part of the being-executed program and being-used data, and performs arithmetical, logical and I/O functions. The CPU execution is driven by a periodical clock, and the simplest one is called single-cycle CPU, which execute one instruction per clock cycle. However, this kind of CPU has low efficiency because the clock cycle is determined by the instruction that has the longest execution time. To enhance the performance, another kind of CPU is invented: pipelined CPU. In a pipelined CPU, the execution of a piece of instruction is divided into five stages, and each stage possesses one clock cycle. It seems the execution time per instruction is stretched. However, there are two differences: First, in the same clock cycle, different parts of CPU are actually executing stages from different instructions, so at most five instructions can be executed at the same time. Second, each clock cycle is much shorter than that of a single-cycle CPU, because the clock cycle is determined by the longest stage of one instruction, and it is only a small part of a whole complete instruction. Therefore, the performance of a pipelined CPU is much better than a single-cycle CPU.

**MIPS** MIPS is a reduced instruction set computer (RISC) instruction set architecture (ISA). It belongs to assembly languages (a kind of low-level programming languages where each instruction is corresponding to a piece of machine code instruction).

**Verilog** Verilog is a hardware description language used to program the programmable electronic systems. In Verilog, the basic function unit is called module, which can implement one or more specific function and can be treated as an element in the logical combination circuits. The hardware programming is quite different from software programming. It is just like connecting circuits without much care about the order of the instructions.

**FPGA board** A field-programmable gate array (FPGA) is an integrated circuit which can be controlled, or rearranged, by hardware programming to implement different functions. We can use Verilog or VHDL to write programs and burn them to the board, then the logic gate array will be programmed and the circuit will be able to execute the program.

In this project we will use Verilog to write a CPU program, both single-cycle and pipelined. The CPU program will be simulated with a piece of MIPS testing instructions stored in the Instruction Memory. Finally, we will burn the program into an FPGA board to implement it.

# 3. Design

## 3.1 Single-cycle CPU

#### 3.1.1 Program Counter (PC)

The program counter counts the address of the instructions stored in the instruction memory. The PC will add 4 to itself automatically every time it fetches one instruction, except for instructions like jump or branch-on-equal which require the PC to change its value to the address of the target instruction.

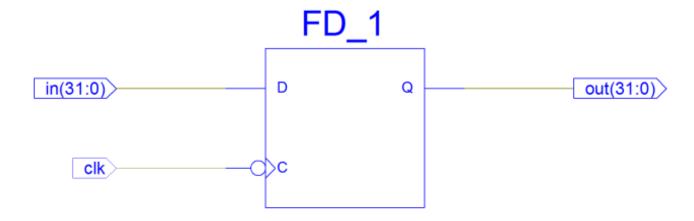


Fig. 1 RTL Schematic for Program Counter

#### 3.1.2 Instruction Memory

The instruction memory is a 128\*32-bit array holding instruction codes. The input is the byte address, and the output is the target instruction.

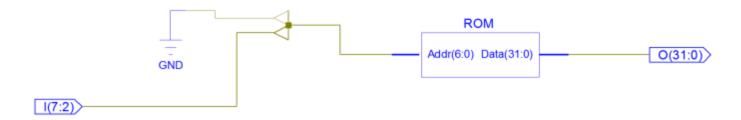


Fig. 2 RTL Schematic for Instruction Memory

#### 3.1.3 Control Unit

The control unit produces control signals according to the specific instruction fetched from the instruction memory. These control signals will be output and command the elements to select or operate on data, thus implement the function of the instruction.

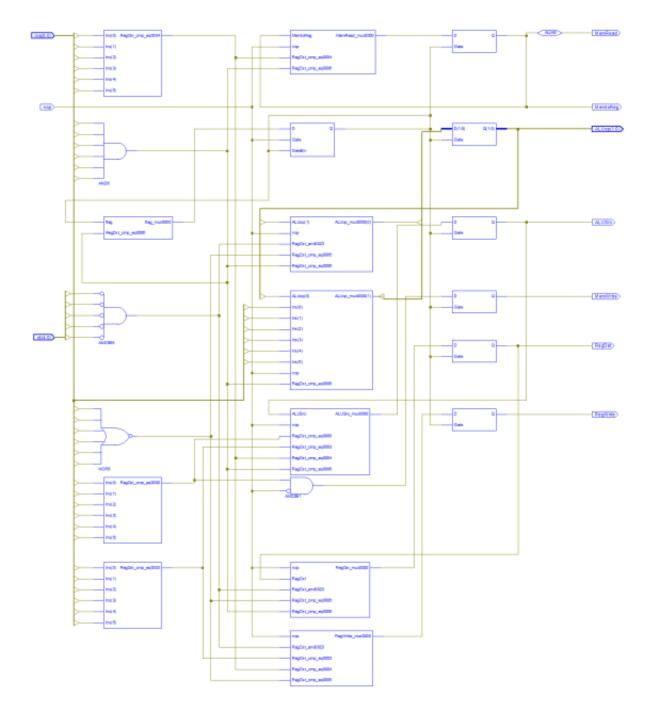


Fig. 3 RTL Schematic for Control Unit

## 3.1.4 Register File

The register file is implemented as a 32\*32 array, and each line is a register storing a 32-bit word. The data can be fetched, modified and overwritten. In single-cycle CPU, all these operations are done in one clock cycle.

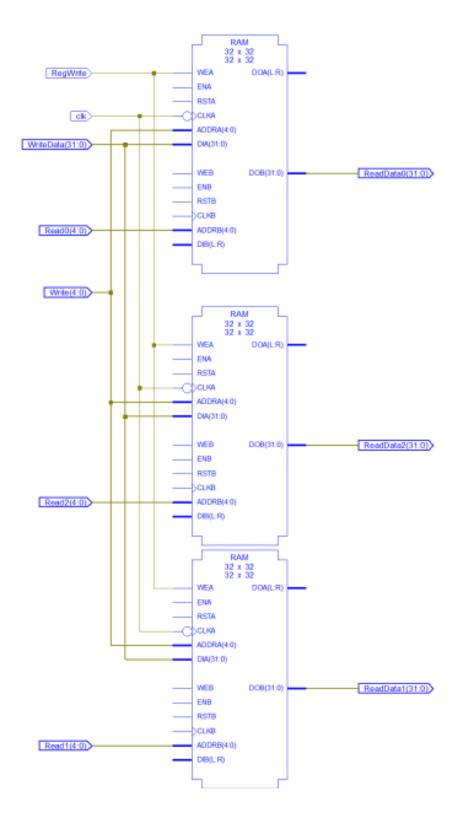


Fig. 4 RTL Schematic for Register File

#### 3.1.5 Arithmetic Logic Center (ALU)

A combinational logic circuit is built to implement an ALU. This ALU contains the following basic operations: addition, subtraction, logic and, logic or, set-on-smaller-than. It takes a four-bit ALU control signal, one or two data as the input and does arithmetic or logical operations on the data to produce a result. The "zero" denotes whether two inputs are equal when they perform "sub" or "beq" instructions.



Fig. 5 Key Parts of RTL Schematic for ALU

## 3.1.6 ALU Control

The ALU shown above needs function selection, so that we can obtain the desired results from it. Therefore, we need to add an ALU control unit. This unit takes "funct" part of the instruction and the signal ALU opproduced from the control unit as input, and produce a 4-bit ALU control signal. By this signal, the ALU will be able to select the correct arithmetic or logical operation.

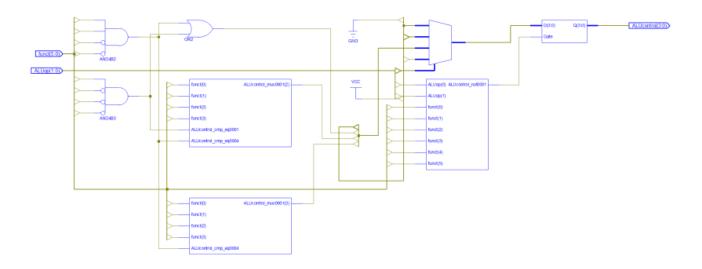


Fig. 6 RTL Schematic for ALU Control

## 3.1.7 Data Memory

Data Memory is a 64\*32 array holding data. The data can be stored and read. If takes data, addresses and control signals as inputs. If MemWrite == 1, the data will be written into the corresponding position in the memory. If MemRead == 1, the data memory will output a datum stored in the corresponding address. What's more, the writing operation is driven by the falling edge of the clock.

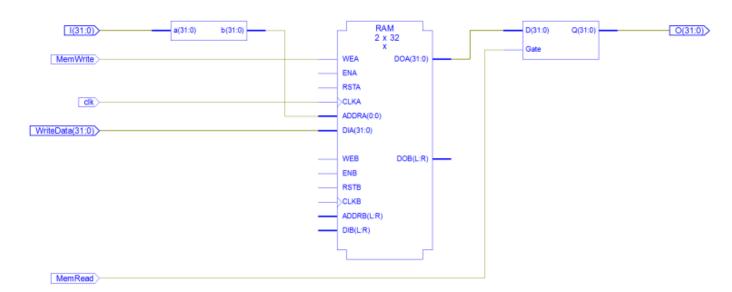


Fig. 7 RTL Schematic for Data Memory

## 3.1.8 Structure of Single-cycle CPU

The complete RTL schematic of a single-cycle CPU is shown below:

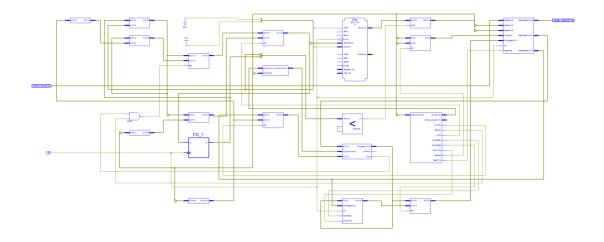


Fig. 7 RTL Schematic for Single-cycle CPU

## 3.2 Pipelined CPU

Except for some tiny difference in the components in single-cycle CPU, there are many new components in pipelined CPU design.

## 3.2.1 Stage Registers

The stage registers are used to store the data passed between different stages, and they are controlled by the rising edge of the clock. At rising edge, the data can be written into the registers. Moreover, the signal "flush" can control whether to clear the content in the registers. If some undesired data are written, then the flush is set to 1 and the stage registers will be cleared.

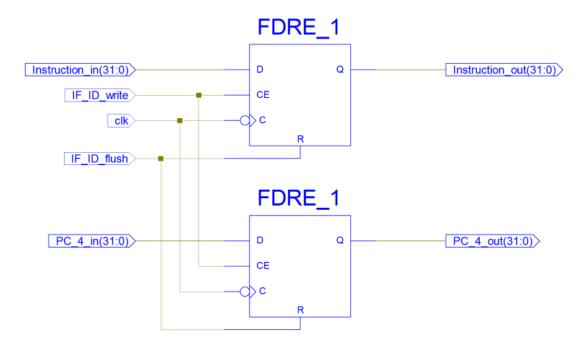


Fig. 8 RTL Schematic for IF-ID Register

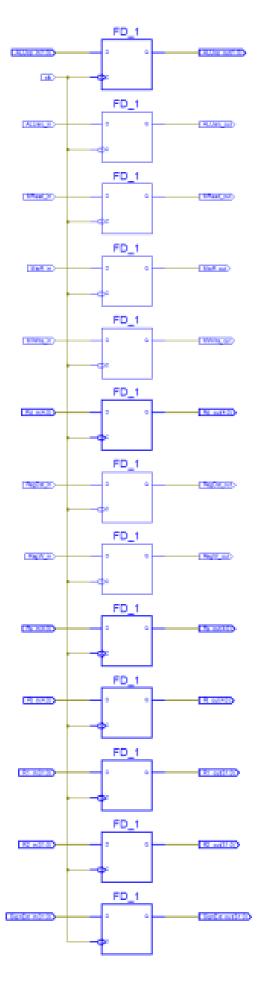


Fig. 9 RTL Schematic for ID-EX Register

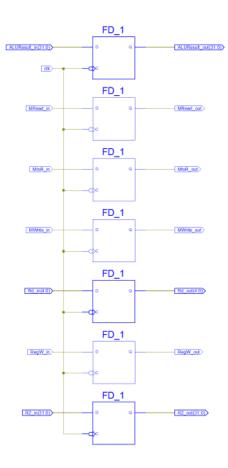


Fig. 10 RTL Schematic for EX-MEM Register

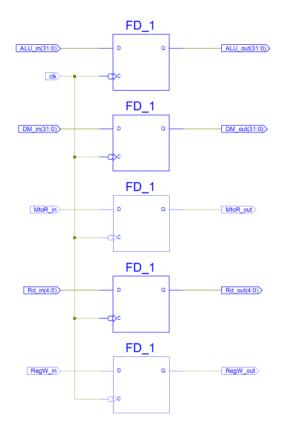


Fig. 11 RTL Schematic for MEM-WB Register

# 3.2.2 Forwarding Unit

Sometimes data needs to be used before it is written into the register file in a pipelined CPU, so we need to forward the result coming from ALU to the next instruction in advance. The forwarding unit is able to detect the forwarding condition and execute the forwarding.

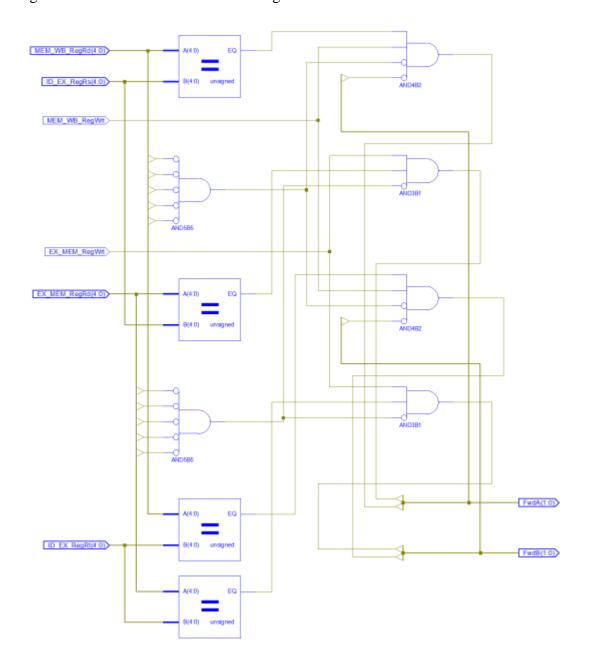


Fig. 12 RTL Schematic for Forwarding Unit

#### 3.2.3 Hazard Detection Unit

This hazard detection unit can detect two kinds of hazard. One is load-use data hazard. Once it detects the load-use data hazard, it will stall the PC and IF/ID stage register by one clock cycle. Then the load-word instruction may be able to use the result forwarding from the ALU output. The other is control hazard caused by branch instructions like "beq". We make the comparison part at the ID part. If the data we get from the register-file has not been updated yet, we need to let the instruction wait or add some new forwarding unit for it. We use the first way, inserting a nop, to solve the problem.

The hazard detection actually are the module to insert nop and decided next PC.

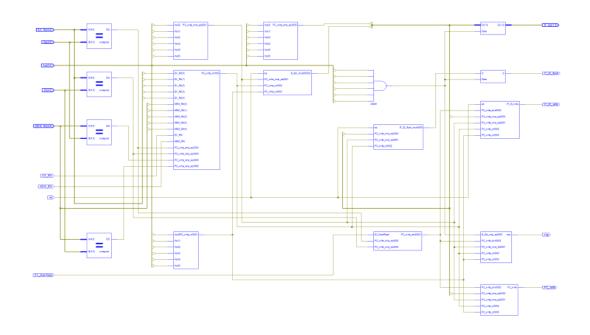


Fig. 13 RTL Schematic for Hazard Detection Unit

# 3.2.4 Structure of Pipelined CPU

The complete RTL schematic of a pipelined CPU is shown below:

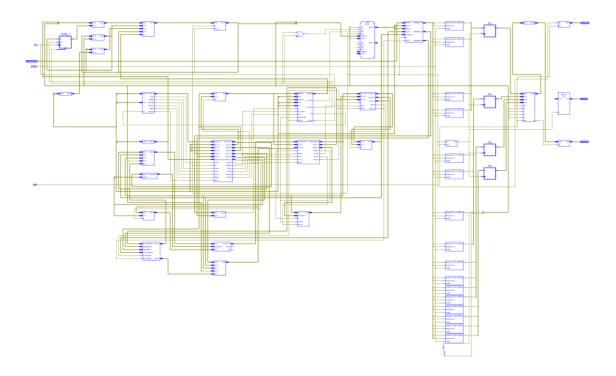


Fig. 14 RTL Schematic for Pipelined CPU

# 3.3 FPGA Board Implementation

In order to check whether we successfully implement the module with the help of an FPGA board, we use the four SSDs, six switches and eight LED lights on the FPGA board to show any of the values stored in the register file at any time. We set up a top module, and set CPU module and the display module as two sub-modules.

The four SSDs can be used to display either the most or the least significant two bytes of one particular variable in the register file. Five of the six switches will determine the position of this particular variable and the remaining one switch will determine which two bytes will be displayed. The eight LED lights will indicate how many clock cycles have already passed.

# 4. Testing and Results

## **4.1 Testing Instructions**

```
addi $s1, $0, 10;
      addi $s0, $0, 10;
      addi $s0, $s0, 10;
      add $s2, $s1, s0;
      addi $t0, $0, 1;
      add $t0, $s2, $t0;
      addi $t1, $0, 1;
      slt $t2, $t1, $t0;
      beg $t1, $t2, TAR;
      addi $s0, $0, 0;
      addi $s1, $0, 0;
      addi $s7, $0, 7;
      addi $s6, $0, 6;
TAR: sw $s2, 4($0);
      lw $t3, 4($0);
      addi $t4, $t3, 5;
BACK: addi $t4, $t4, 5;
      sub $t5, $t3, t4;
      and $t6, $t3, $t5;
      or $t7, $t5, $t0;
      j TAR2;
      addi $s0, $0, 127;
TAR2: addi $s0, $0, 127;
      addi $s6, $0, 255;
      sw $s6, 4($0);
      lw $s7, 4($0);
      beg $s6, $s7, BACK;
```

A good set of testing instructions as shown above must cover all the instructions required. What is more, all kinds of hazard, including EX data hazard, MEM data hazard, load-use hazard and control hazard, must be perfectly dealt.

# 4.2 Single-cycle CPU Software Simulation

The clock cycle is 40ns for this software simulation. The result of the simulation is shown below. It can be found that this result follows the real result of the testing instructions.

```
Time: 0 [clk] = 1
```

```
[\$s0] = 00000000 [\$s1] = 00000000 [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               0 \quad [clk] = 0
[\$s0] = 00000000 \ [\$s1] = 00000000a \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               1 [clk] = 1
Time:
[\$s0] = 00000000 [\$s1] = 0000000a [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               1 [clk] = 0
[\$s0] = 0000000a \ [\$s1] = 0000000a \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               2 [clk] = 1
[\$s0] = 0000000a \ [\$s1] = 0000000a \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               2 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               3 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               3 [clk] = 0
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               4 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               4 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000001
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               5 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000001
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               5 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               6 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               6 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               7 [clk] = 1
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               7 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               8 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               8 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               9 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               9 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              10 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              10 [clk] = 0
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              11 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              11 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000023 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              12 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000023 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              12 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              13 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              13 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              14 [clk] = 1
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              14 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              15 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              15 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              16 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              16 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              17 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              17 [clk] = 0
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 00000000 [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
             18 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 00000000 [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              18 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 00000000 [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
             19 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 00000000 [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
             19 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
             20 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              20 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              21 [clk] = 1
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              21 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              22 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              22 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              23 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
             23 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              24 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              24 [clk] = 0
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              25 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
Time:
             25 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
             26 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              26 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              27 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
             27 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
28 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              28 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              29 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              29 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              30 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              30 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              31 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
31 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              32 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              32 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              33 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              33 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              34 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              34 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
35 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              35 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              36 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              36 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              37 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              37 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              38 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
38 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              39 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              39 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              40 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              40 \text{ [clk]} = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              41 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              41 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
42 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              42 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              43 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              43 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              44 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              44 \text{ [clk]} = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              45 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
45 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              46 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              46 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              47 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              47 \text{ [clk]} = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              48 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              48 \text{ [clk]} = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
49 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              49 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000006
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              50 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
run 1000 ns
              50 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              51 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              51 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              52 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
```

```
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
             52 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             53 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              53 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              54 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              54 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              55 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              55 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
```

```
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
             56 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             56 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              57 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              57 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              58 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              58 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              59 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 00000002
```

```
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
             59 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              60 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              60 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              61 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              61 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              62 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              62 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
```

```
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              63 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              63 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              64 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              64 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              65 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              65 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              66 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
```

```
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              66 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              67 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              67 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              68 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              68 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              69 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              69 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
```

```
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
             70 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
             70 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
             71 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
             71 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
             72 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
             72 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
             73 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
```

```
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
             73 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
             74 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
             74 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              75 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
run 1000 ns
Time:
              75 \text{ [clk]} = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
             76 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
             76 \text{ [clk]} = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
```

```
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              77 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              77 \text{ [clk]} = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
             78 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              78 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              79 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
             79 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              80 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
```

```
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              80 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              81 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
             81 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              82 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              82 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
             83 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
             83 \text{ [clk]} = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
```

```
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              84 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              84 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
             85 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              85 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              86 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
             86 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
             87 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
```

```
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              87 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              88 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
             88 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              89 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              89 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              90 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = fffffdf [\$t8] = 00000000 [\$t9] = 00000000
              90 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
```

```
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              91 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              91 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              92 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              92 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              93 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              93 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              94 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
```

```
[\$t4] = 00000055 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              94 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              95 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              95 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              96 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              96 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              97 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              97 \text{ [clk]} = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
```

```
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              98 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              98 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              99 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              99 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            100 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
run 1000 ns
Time:
            100 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            101 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
```

```
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            101 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            102 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            102 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            103 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            103 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            104 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            104 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
```

```
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            105 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            105 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            106 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            106 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            107 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            107 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            108 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
```

```
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            108 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            109 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            109 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            110 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            110 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            111 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            111 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
```

```
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            112 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            112 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            113 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            113 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            114 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            114 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            115 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
```

```
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            115 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            116 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            116 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            117 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            117 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            118 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            118 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
```

```
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            119 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            119 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            120 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            120 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            121 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            121 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            122 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
```

```
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            122 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            123 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            123 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            124 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            124 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            125 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
run 1000 ns
Time:
           125 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            126 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            126 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            127 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            127 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            128 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            128 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            129 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            129 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            130 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            130 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            131 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            131 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            132 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            132 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            133 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            133 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            134 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            134 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            135 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            135 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            136 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            136 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            137 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            137 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            138 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            138 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            139 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            139 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            140 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            140 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            141 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            141 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            142 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            142 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            143 \ [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            143 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            144 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            144 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            145 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            145 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            146 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            146 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            147 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000006e \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            147 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            148 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffb0 \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            148 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            149 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 00000010
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            149 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            150 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
run 1000 ns
            150 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            151 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            151 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            152 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            152 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            153 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            153 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
```

```
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            154 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            154 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            155 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            155 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            156 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000073 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            156 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            157 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
```

```
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffab \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            157 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            158 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 0000000a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            158 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            159 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            159 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            160 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            160 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
```

```
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            161 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            161 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            162 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            162 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            163 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            163 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            164 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
```

```
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            164 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            165 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000078 \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            165 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            166 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa6 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            166 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa1 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            167 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa1 \ [\$t6] = 00000006
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            167 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
```

```
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = fffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            168 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            168 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            169 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            169 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            170 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            170 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            171 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
```

```
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = fffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            171 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            172 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            172 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            173 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            173 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            174 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000007d \ [\$t5] = ffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            174 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
```

```
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            175 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffffa1 \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
run 1000 ns
            175 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            176 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 00000000
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            176 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            177 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            177 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            178 [clk] = 1
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            178 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            179 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            179 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            180 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            180 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            181 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            181 [clk] = 0
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            182 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            182 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            183 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000082 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            183 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            184 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff9c \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            184 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            185 [clk] = 1
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 0000001c
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            185 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            186 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            186 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            187 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            187 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            188 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            188 [clk] = 0
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            189 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            189 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            190 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            190 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            191 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            191 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            192 [clk] = 1
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000087 \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            192 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            193 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff97 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            193 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff92 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            194 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff92 \ [\$t6] = 00000016
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            194 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff92 \ [\$t6] = 00000012
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            195 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff92 \ [\$t6] = 00000012
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            195 [clk] = 0
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff92 \ [\$t6] = 00000012
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            196 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff92 \ [\$t6] = 00000012
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            196 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff92 \ [\$t6] = 00000012
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
Time:
            197 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff92 \ [\$t6] = 00000012
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            197 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff92 \ [\$t6] = 00000012
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            198 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff92 \ [\$t6] = 00000012
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            198 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff92 \ [\$t6] = 00000012
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
            199 [clk] = 1
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff92 \ [\$t6] = 00000012
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
             199 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff92 \ [\$t6] = 00000012
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
             200 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000008c \ [\$t5] = ffffff92 \ [\$t6] = 00000012
[\$t7] = ffffff9f [\$t8] = 00000000 [\$t9] = 00000000
```

## 4.3 Pipelined CPU Software Simulation

The clock cycle is 40ns for this software simulation. The result of the simulation is shown below. It can be found that this result follows the real result of the testing instructions.

```
Time:
               0 [clk] = 1
[\$s0] = 00000000 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               0 [clk] = 0
[\$s0] = 00000000 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               1 [clk] = 1
Time:
[\$s0] = 00000000 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               1 [clk] = 0
Time:
```

```
[\$s0] = 00000000 [\$s1] = 00000000 [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               2 [clk] = 1
[\$s0] = 00000000 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               2 [clk] = 0
Time:
[\$s0] = 00000000 [\$s1] = 00000000 [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               3 [clk] = 1
Time:
[\$s0] = 00000000 [\$s1] = 00000000 [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               3 [clk] = 0
[\$s0] = 00000000 [\$s1] = 00000000 [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               4 [clk] = 1
Time:
[\$s0] = 00000000 [\$s1] = 0000000a [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               4 [clk] = 0
Time:
[\$s0] = 00000000 [\$s1] = 0000000a [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               5 [clk] = 1
Time:
```

```
[\$s0] = 0000000a \ [\$s1] = 0000000a \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               5 [clk] = 0
Time:
[\$s0] = 0000000a \ [\$s1] = 0000000a \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               6 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               6 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               7 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               7 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               8 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000001
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               8 [clk] = 0
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000001
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               9 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               9 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              10 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              10 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              11 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              11 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              12 [clk] = 1
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              12 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              13 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              13 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              14 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              14 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              15 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              15 [clk] = 0
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              16 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              16 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              17 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              17 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              18 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000023 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              18 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000023 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              19 [clk] = 1
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              19 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              20 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              20 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              21 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              21 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              22 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              22 [clk] = 0
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              23 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              23 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              24 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              24 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              25 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 00000000 [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
Time:
              25 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 00000000 [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
26 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 00000000 [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              26 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 00000000 [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              27 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              27 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              28 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              28 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              29 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
29 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              30 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              30 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              31 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              31 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000028 \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              32 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              32 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff6 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
33 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              33 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000016
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              34 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              34 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              35 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              35 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              36 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
36 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              37 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              37 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              38 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              38 \text{ [clk]} = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              39 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              39 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
40 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              40 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              41 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
             41 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              42 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              42 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              43 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
43 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              44 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              44 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000002d \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              45 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              45 \text{ [clk]} = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = fffffff1 \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              46 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 00000010
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              46 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 00000010
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
47 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              47 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              48 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              48 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              49 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              49 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              50 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
run 1000 ns
             50 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             51 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              51 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              52 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              52 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              53 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              53 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
```

```
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
             54 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             54 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              55 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              55 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              56 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              56 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              57 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
```

```
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
             57 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000032 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             58 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              58 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffec \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              59 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              59 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 0000000c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              60 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              60 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
```

```
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              61 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              61 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              62 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              62 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              63 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              63 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              64 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
```

```
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              64 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              65 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              65 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              66 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              66 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              67 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              67 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
```

```
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              68 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              68 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              69 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
              69 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
             70 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
             70 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000037 \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
             71 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
```

```
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
             71 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe7 \ [\$t6] = 00000006
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             72 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
             72 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000006
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
             73 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
             73 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
             74 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
Time:
             74 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
```

```
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
             75 \text{ [clk]} = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
              75 \text{ [clk]} = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              76 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              76 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              77 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              77 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              78 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
```

```
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              78 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              79 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
             79 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              80 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              80 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             81 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              81 \text{ [clk]} = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
```

```
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              82 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              82 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              83 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              83 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000003c \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              84 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              84 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffe2 \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              85 \text{ [clk]} = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
```

```
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              85 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 00000002
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              86 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffff \ [\$t8] = 00000000 \ [\$t9] = 00000000
              86 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffff [\$t8] = 00000000 [\$t9] = 00000000
              87 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              87 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              88 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              88 \text{ [clk]} = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
```

```
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              89 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              89 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              90 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              90 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              91 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              91 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = fffffdf [\$t8] = 00000000 [\$t9] = 00000000
              92 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
```

```
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              92 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              93 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              93 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              94 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              94 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              95 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              95 \text{ [clk]} = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
```

```
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              96 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              96 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000041 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              97 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              97 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffdd \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              98 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
              98 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 0000001c
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              99 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
```

```
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
              99 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            100 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
run 1000 ns
            100 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            101 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            101 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            102 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            102 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
```

```
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            103 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            103 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            104 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            104 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            105 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            105 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            106 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
```

```
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            106 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            107 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            107 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            108 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            108 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            109 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            109 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
```

```
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000046 \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            110 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            110 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd8 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            111 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            111 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000018
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            112 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            112 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            113 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
```

```
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            113 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            114 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            114 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            115 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            115 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            116 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            116 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
```

```
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            117 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            117 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            118 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            118 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            119 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            119 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            120 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
```

```
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            120 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            121 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            121 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            122 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            122 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000004b \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            123 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            123 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
```

```
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffd3 \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            124 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            124 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 00000012
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            125 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
run 1000 ns
            125 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            126 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            126 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            127 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            127 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            128 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            128 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            129 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            129 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            130 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            130 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            131 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            131 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            132 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            132 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            133 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            133 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            134 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            134 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            135 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            135 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000050 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            136 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            136 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffce \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            137 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            137 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 0000000e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            138 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            138 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            139 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            139 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            140 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            140 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            141 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            141 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            142 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            142 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            143 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            143 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            144 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            144 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            145 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            145 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            146 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            146 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            147 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            147 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            148 \ [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
```

```
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            148 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000055 \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            149 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            149 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc9 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            150 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
run 1000 ns
Time: 150 \text{ [clk]} = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000008
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            151 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            151 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
```

```
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            152 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            152 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            153 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            153 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            154 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            154 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            155 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
```

```
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            155 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
             156 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            156 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            157 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            157 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            158 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            158 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
```

```
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            159 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            159 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            160 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            160 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            161 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            161 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005a \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            162 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
```

```
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            162 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffc4 \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            163 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            163 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 00000004
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            164 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
            164 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffdf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            165 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            165 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
```

```
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            166 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            166 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            167 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            167 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            168 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            168 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            169 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
```

```
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            169 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            170 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            170 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            171 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            171 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            172 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            172 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
```

```
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            173 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
             173 \text{ [clk]} = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            174 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f [\$t5] = ffffffbf [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            174 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 0000005f \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            175 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
run 1000 ns
            175 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffbf \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            176 [clk] = 1
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            176 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001e
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            177 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            177 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            178 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            178 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            179 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            179 [clk] = 0
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            180 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            180 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            181 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            181 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            182 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            182 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            183 [clk] = 1
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            183 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            184 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            184 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            185 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            185 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            186 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            186 [clk] = 0
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            187 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            187 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000064 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            188 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            188 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffba \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            189 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            189 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 0000001a
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            190 [clk] = 1
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            190 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            191 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            191 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            192 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            192 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            193 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            193 [clk] = 0
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            194 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            194 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            195 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            195 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            196 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            196 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            197 [clk] = 1
Time:
```

```
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            197 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            198 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            198 [clk] = 0
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
Time:
            199 [clk] = 1
[\$s0] = 00000014 \ [\$s1] = 00000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            199 [clk] = 0
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff \ [\$s7] = 000000ff \ [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
            200 [clk] = 1
Time:
[\$s0] = 00000014 \ [\$s1] = 0000000a \ [\$s2] = 0000001e
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 000000ff [\$s7] = 000000ff [\$t0] = 0000001f
[\$t1] = 00000001 \ [\$t2] = 00000001 \ [\$t3] = 0000001e
[\$t4] = 00000069 \ [\$t5] = ffffffb5 \ [\$t6] = 00000014
[\$t7] = ffffffbf [\$t8] = 00000000 [\$t9] = 00000000
```

## **4.4 Hardware Implementation**

The clock cycle is one second for the hardware implementation. The result of the implementation is shown below. It can be found that this result follows the real result of the testing instructions.

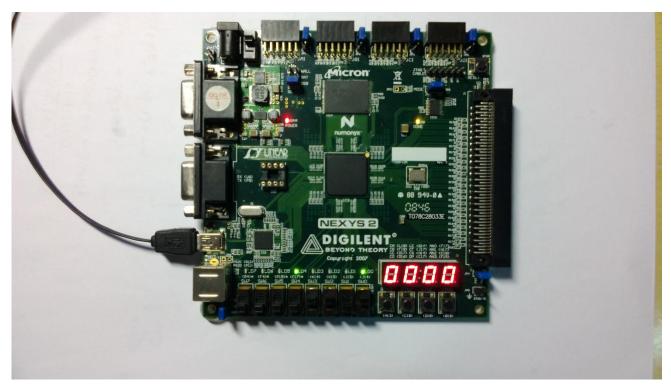


Fig. 15 Hardware Implementation

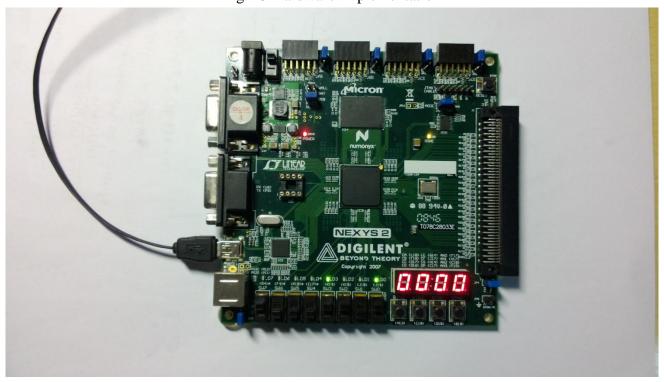


Fig. 16 Hardware Implementation



Fig. 17 Hardware Implementation



Fig. 18 Hardware Implementation

Fig. 13 and Fig. 14 mean that during the ninth second, the value stored in \$t5 is 0. Fig. 17 and Fig. 18 mean that this value will eventually be 0xFFFFFF6, which is -10.

#### 5. Discussions

In this section we will mainly discuss about some strange problems we met during the project and the solutions to them.

The first problem was caused by an unexpected infinite loop. When we tested the single-cycle CPU, a

strange phenomenon appeared: the clock doesn't run and the simulation time remains 0 ns. We had initialized the clock as well as other inputs in the testbench, but it still didn't work. After checking most of the components, we suddenly found that when closing the Isim, it asked us whether to "save the change", which is abnormal if the simulation is finished even the clock doesn't run. So, we derive that the simulation process is actually still running. By the information shown in Console, we thought we are stuck at some infinite loop while the simulation is initializing the circuit. Since this circuit initialization actually contains not only the initial sentences in the module but also many other constructions, the scanning range was quite large. Finally, with the help of our TA Miss Zheng, we found that there is a piece of code with start "always" but no conditions, thus an infinite loop is caused. And it was possibly because we were about to change the conditions there but forgot to write after we deleted the previous ones.

The second problem was caused by the different "comprehension" to the program between software and hardware. After we successfully simulated the pipelined CPU with Isim, we burnt the program to the board, but the instructions output from the instruction memory was a total mess. Since the program counter was checked fine, we found that there is one sentence "O = Imemory[I[7:2]]" may cause the confusion to the hardware. So we tried to modified the expression as well as the structure of the initialized instruction memory. After several trials, we corrected it as "....." and the program successfully ran on the FPGA board.

The third problem was caused by some unknown data change, which we called "data shaking". When we simulate the load-word instruction, a strange phenomenon appeared: the instruction next to the load-word instruction was not executed, but the PC indeed counted it. What's more, if the instruction next to this one belongs to the same type, then both of them were not executed. But if the instruction next to this one is of another type, then it can run normally. So we thought the problem occurred at the control unit. We monitored all the variables and found a very strange thing: the "nop" signal was 0 all the time, but the program went into the opposite branch: the branch taken if nop = =1. After many trials and analysis, we raised one hypothesis: it is possible that the nop changed suddenly to 1 and then immediately 0 at the moment when the opcode of the load-word instruction came to the control unit, but after it changed back, the control signals didn't change back because we didn't include the "nop" signal into the "always @" conditions. Then we added "nop" as well as other possible affecting signals, and the program ran normally! Though we don't know why the signal shaked, it definitely happened, and we checked all the similar potential problems. This is the last problem we fixed. After that all the tests can be done successfully.

### 6. Conclusion

After days of analysis, writing and testing, we successfully finish all the tasks: simulation of single-cycle CPU and pipelined CPU, and implementation of pipelined CPU. We are satisfied about our results. We are very happy.

## **Appendices**

#### **Appendix A: Source Code of Single-cycle CPU**

```
module single cycle(clk,check input,check output);
   input [4:0] check input;
   input
                 clk;
   output [31:0] check output;
          [31:0] check output1;
   wire [31:0] w1,w2,w3,w4,w5,w6,w7,w8,w9,
                  w10,w11,w13,w14,w15,w17,sw1;
   wire [27:0] sw;
   wire [4:0] w12;
                  10,11,12,13,14,16,17,18,19,110;
   wire
   wire [1:0] I5;
   wire [3:0] I11;
                  ww1,ww2,ww3;
   wire
   reg [31:0] four;
   initial four = 4;
   PC pc(clk,w1,w2);
   Instruction memory IM (w2,w4);
   RegisterFile RF (clk, w4[25:21], w4[20:16], check input,
      w12,w15,I8,w8,w9,check output);
   DataMemory DM (clk,w13,w9,w14,I6,I3);
   control CL (check output1, w4[31:26], I0, I1, I2, I3, I4, I5, I6, I7, I8);
   ALU control AC (w4[5:0], I5, I11);
   ALU A1 (w8,w11,I9,w13,I11,ww1);
   mux n bit 2 to 1 \#(5) m1 (w4[20:16], w4[15:11], w12, I0);
   mux n bit 2 to 1 \#(32) m2 (w9,w10,w11,I7);
   mux_n_bit_2_to_1 #(32) m3 (w13,w14,w15,I4);
   mux n bit 2 to 1 \#(32) m4 (w3, w5, w6, I10);
   mux n bit 2 to 1 \#(32) m5 (w6, w7, w1, I1);
   shift left 2 n to nplus2 bit sl1 (w4[25:0],sw);
   combine c1 (w3[31:28],sw,w7);
   Add ad1 (w2,four,w3);
   Add ad2 (w3,w17,w5);
   shift left 2 n bit sl (w10,w17);
   Sign extend se (w4[15:0], w10);
   assign I10 = I2 & I9;
endmodule
module mux n bit 2 to 1(a,b,c,sel);
   parameter
         [N-1:0] a,b;
   input
                     sel;
   input
```

```
output [N-1:0] c;
   reg [N-1:0] c;
   always @(a,b,sel)
      begin
         if(sel==0)
            c=a;
         else if(sel==1)
            c=b;
      end
endmodule
module combine(a,b,c);
   input [3:0] a;
   input [27:0] b;
   output [31:0] c;
   assign c[31:28]=a;
   assign c[27:0]=b;
endmodule
module shift_left_2_n_to_nplus2_bit(a,b);
   parameter N=26;
   input [N-1:0] a;
   output [N+1:0] b;
   reg [N+1:0] b;
   always @(a)
     begin
         b[N+1:2] \le a [N-1:0];
         b[1:0] \le 0;
      end
endmodule
module shift_right_2_n_bit(a,b);
   parameter N=32;
   input [N-1:0] a;
   output [N-1:0] b;
   reg [N-1:0] b;
   always @(a)
      begin
         b[N-3:0] \le a[N-1:2];
         b[N-1:N-2] \le 0;
      end
endmodule
module shift_left_2_n_bit(a,b);
   parameter N=32;
   input [N-1:0] a;
   output [N-1:0] b;
   reg [N-1:0] b;
   always @(a)
```

```
begin
         b[N-1:2] \le a[N-3:0];
         b[1:0] \le 0;
endmodule
module ALU(a,b,zero,ALUresult,ALUcontrol,overflow);
   input [31:0] a,b;
   input [3:0] ALUcontrol;
   output
                zero, overflow;
   output [31:0] ALUresult;
                overflow, zero;
   reg
   reg [31:0] ALUresult;
   always @(ALUcontrol,a,b)
      begin
          zero = (a == b);
          overflow = 0;
          case(ALUcontrol)
             4'b0000:
                ALUresult = a & b;
             4'b0001:
                ALUresult=a|b;
             4'b0010:
                begin
                    ALUresult = a + b;
                    overflow=(~a[31]&&~b[31]&&ALUresult[31])
                       ||(a[31]&&b[31]&&~ALUresult[31]);
                end
             4'b0110:
                begin
                    ALUresult = a - b;
                    overflow=(a[31]&&~b[31]&&~ALUresult[31])
                       ||(~a[31]&&b[31]&&ALUresult[31]);
                end
             4'b0111:
                ALUresult = (a < b);
             default
                ALUresult = 0;
          endcase
      end
endmodule
module ALU control(funct,ALUop,ALUcontrol);
   input [5:0] funct;
   input [1:0] ALUop;
   output [3:0] ALUcontrol;
   reg [3:0] ALUcontrol;
   always @(funct, ALUop)
      if (ALUop==2)
```

```
begin
             case(funct)
                 6'b100000: ALUcontrol=4'b0010;
                 6'b100010: ALUcontrol=4'b0110;
                 6'b100100: ALUcontrol=4'b0000;
                 6'b100101: ALUcontrol=4'b0001;
                 6'b101010: ALUcontrol=4'b0111;
             endcase
          end
      else if(ALUop==0)
          ALUcontrol=4'b0010;
      else if(ALUop==1)
          ALUcontrol=4'b0110;
      else
          ALUcontrol=0;
endmodule
module control (check output, Instruction, RegDst, Jump, Branch, MemRead,
   MemtoReg,ALUop,MemWrite,ALUSrc,RegWrite);
   input
          [5:0] Instruction;
   output
                  RegDst, Jump, Branch, MemRead,
                 MemtoReg,MemWrite,ALUSrc,RegWrite;
   output [1:0] ALUop;
   output [31:0] check output;
           [31:0] check output;
   reg
                  RegDst, Jump, Branch, MemRead, MemtoReg,
   reg
                 MemWrite, ALUSrc, RegWrite;
           [1:0]
                  ALUop;
   reg
   reg flaq;
   initial
      begin
          flag <= 0;
          check output<=0;</pre>
      end
   always @(Instruction)
      if (~flag)
          case(Instruction)
              6'b100011:
                 begin
                     RegDst=0;Jump=0;Branch=0;MemRead=1;MemtoReg=1;
                     ALUop=0; MemWrite=0; ALUSrc=1; RegWrite=1;
                 end//lw
              6'b101011:
                 begin
                     RegDst=0;Jump=0;Branch=0;MemRead=0;MemtoReg=0;
                     ALUop=0; MemWrite=1; ALUSrc=1; RegWrite=0;
                 end//sw
```

```
begin
                    RegDst=1;Jump=0;Branch=0;MemRead=0;MemtoReg=0;
                    ALUop=2;MemWrite=0;ALUSrc=0;RegWrite=1;
                 end//add, sub, or, alt
              6'b000100:
                 begin
                    RegDst=0;Jump=0;Branch=1;MemRead=0;MemtoReg=0;
                    ALUop=1; MemWrite=0; ALUSrc=0; RegWrite=0;
                 end//beq
              6'b000010:
                 begin
                    RegDst=0;Jump=1;Branch=0;MemRead=0;MemtoReg=0;
                    ALUop=1; MemWrite=0; ALUSrc=0; RegWrite=0;
                 end//j
              6'b001000:
                 begin
                    RegDst=0;Jump=0;Branch=0;MemRead=0;MemtoReg=0;
                    ALUop=0;MemWrite=0;ALUSrc=1;RegWrite=1;
                 end//addi
              6'b111111:
                 begin
                    MemWrite=0; RegWrite=0; flag=1; check output=1;
                 end
          endcase
endmodule
module Sign_extend(in, out);
   input [15:0] in;
   output [31:0] out;
         [31:0] out;
   reg
   always @(in)
       begin
          out[15:0] <= in;
          if(in[15])
             begin
                 out[31:16] <= 16'hFFFF;
             end
          else if (~in[15])
             begin
                 out[31:16] <= 16'h0000;
             end
       end
endmodule
module Add(a,b,c);
          [31:0] a,b;
   input
   output [31:0] c;
```

6'b000000:

```
assign c = a + b;
endmodule
module PC(clk,in,out);
                 clk;
   input
   input [31:0] in;
   output [31:0] out;
   reg [31:0] out;
   initial out=0;
   always @(negedge clk) out=in;
endmodule
module DataMemory(clk, I,WriteData,O,MemWrite,MemRead);
   parameter
                 N = 64;
   input [31:0] I,WriteData;
                 MemWrite, MemRead, clk;
   input
   output [31:0] 0;
   reg [31:0] O;
         [31:0] im [N-1:0];
   reg
   wire [31:0] INew;
   integer
                i;
   initial
      for (i=0; i<N; i=i+1)</pre>
          im[i]=32'b0;
   always @ (negedge clk)
      if (MemWrite)
          if(INew < N)</pre>
             im[INew]=WriteData;
   always @ (MemRead, INew)
      if (MemRead==1'b1)
          if(INew < N)</pre>
             O=im[INew];
   shift right 2 n bit sr (I,INew);
endmodule
module RegisterFile(clk,Read1,Read2,Read0,Write,WriteData,RegWrite,
   ReadData1,ReadData2,ReadData0);
   input [4:0] Read1, Read2, Read0, Write;
   input
                 RegWrite, clk;
   input [31:0] WriteData;
   output [31:0] ReadData1, ReadData2, ReadData0;
          [31:0] ReadData1, ReadData2, ReadData0;
   req
          [31:0] r[31:0];
   reg
                  k;
   integer
```

```
initial
      for (k=0; k<32; k=k+1)
         r[k]=32'b0;
   always @ (clk)
      $monitor("Clock Time: ",$time,"ns [clk] = %h\n", clk,
         "[\$s0] = \$h [\$s1] = \$h [\$s2] = \$h\n",r[16],r[17],r[18],
         "[$s3] = h [$s4] = h [$s5] = h^r, r[19], r[20], r[21],
         "[$s6] = h [$s7] = h [$t0] = h^r,r[22],r[23],r[8],
         "[\$t1] = \$h [\$t2] = \$h [\$t3] = \$h\n",r[9],r[10],r[11],
         "[$t4] = h [$t5] = h [$t6] = h", r[12], r[13], r[14],
         "[$t7] = %h [$t8] = %h [$t9] = %h",r[15],r[24],r[25]);
   always @ (Read1, Read2, Read0, r[Read1], r[Read2], r[Read0])
      begin
         ReadData1=r[Read1];
         ReadData2=r[Read2];
         ReadData0=r[Read0];
      end
   always@(negedge clk)
      if (RegWrite)
         r[Write] = WriteData;
endmodule
module Instruction memory(I,0);
   input [31:0] I;
   output [31:0] 0;
   reg
        [31:0] Imemory [64:0];
        [31:0] 0;
   req
         [31:0] INew;
   wire
   integer
               k:
   initial
     begin
         for (k=0; k<65; k=k+1)
            Imemory[k] = 32'hFFFFFFF;
         //You can give your own code block here.
         Imemory[0] = 32'b001000000010001000000000001010;
         Imemory[1] = 32'b00100000001000000000000001010;
         Imemory[2] = 32'b0010001000010000000000000001010;
         Imemory[3] = 32'b0000001000110000100100000100000;
         Imemory[5] = 32'b000000100100100001000000100000;
         Imemory[6] = 32'b00100000000100100000000000000001;
         Imemory[7] = 32'b0000000100101000010100000101010;
      // Imemory[7] = 32'b000000010001010101000000101010;
```

```
Imemory[11] = 32'b00100000001011100000000000111;
      Imemory[12] = 32'b00100000001011000000000000110;
      Imemory[15] = 32'b0010000101101100000000000000101;
      Imemory[16] = 32'b0010000110001100000000000000101;
      Imemory[17] = 32'b00000001011011000110100000100010;
      Imemory[18] = 32'b00000001011011010111000000100100;
      Imemory[19] = 32'b00000001101010000111100000100101;
      Imemory[20] = 32'b000010000000000000000000010110;
       Imemory[21] = 32'b001000000010000000000001111111;
      Imemory[22] = 32'b0010000000101100000000011111111;
       Imemory[24] = 32'b10001100000101110000000000000100;
      shift right 2 n bit sr (I,INew);
  always @(INew)
    if(INew<65)</pre>
      O=Imemory[INew];
endmodule
```

# **Appendix B: Single-cycle CPU Test Bench**

```
module SC_test;
  reg clk;
  reg [4:0]   check_input;
  wire [31:0]   check_output;
  single_cycle uut (
      .clk(clk),
      .check_input(check_input),
      .check_output(check_output)
);
  initial clk = 1;
  always #20 clk = ~clk;
endmodule
```

### Appendix C: Source Code of Pipelined CPU and Hardware Implement Unit

```
`timescale 1ns / 1ps
module Pipeline(clk,check input,mostSig,reset,cNum,anNum,light);
   input
              [4:0] check input;
   input
                      clk,reset,mostSig;
   output
             [6:0] cNum;
             [3:0] anNum;
   output
   output
             [7:0] light;
   wire
              [31:0] check output, w14, w15, w16, w20, w21, w22, w23,
                      w24,w26,w27,w29,w31;
              [31:0] w1,w2,w3,w4,w5,w6,w7,w8,w9,w10,w11,w12,w13,
   wire
                     ww1,ww2,ww3;
              [27:0] sw1;
   wire
              [4:0] w17,w18,w19,w25,w28,w30;
   wire
              [3:0] I28;
   wire
   wire
              [1:0] I1,I6,I13,I25,I26;
             [15:0] dNum;
   wire
             [3:0] qx;
   wire
   wire
                      dx,clkOut;
                      10,12,13,14,15,17,18,19,110,111,112,114,115,116,117;
   wire
                      zero, overflow, I18, I19, I20, I21, I22, I23, I24, I27;
   wire
              [31:0] four;
   reg
              [3:0] q0, q1, q2, q3;
   reg
                     d0, d1, d2, d3;
   reg
              [7:0] light;
   reg
   // Initialization
   initial
      begin
          four <= 4;
          light <= 0;
      end
   // Clock Divider
   divider DVD (clkOut, clk, reset);
   // PipiLine CirCuit (clkOut changed to clk for software simulation)
   PL PC pc1(clkOut, I0, w8, w3);
   Add add1 (w3, four, w4);
   Instruction memory InsM(w3,w5);
   IF ID if id(clkOut,w5,w4,I2,I3,w1,w11);
   shift_left_2_n_to_nplus2_bit sl1(w1[25:0],sw1);
   combine cmb (w4[31:28], sw1, w7);
   Sign extend se(w1[15:0],w2);
   assign w31 = w2 << 2;
   Add add2 (w31,w11,w6);
   mux 4 to 1 \#(32)M1 (w6,w4,w7,w3,I1,w8);
```

```
hazard detection unit and branch hz(w1[31:26],w1[25:21],w1[20:16],
       14,w19,w25,I15,I20,I18,I22,I0,I1,I2,I3,I27);
   PL control con(w1[15:11],w1[31:26],I27,I11,I10,I9,I8,I7,I6,I5);
   equal eq(w9,w10,I4);
   PL RegisterFile RF (clkOut,w1[25:21],w1[20:16],check input,w28,w29,
       124,w9,w10,check output);
   ID EX id ex(clkOut,I11,I17,I10,I18,I9,I15,I8,I16,I7,I14,I6,I13,I5,
       I12, w9, w12, w10, w13, w2, w16, w1 [20:16], w17, w1 [15:11],
       w18,w1[25:21],w30);
   mux 4 to 1 \#(32) M2 (w12,w29,w22,ww1,I26,w14);
   mux 4 to 1 \#(32) M3 (w13,w29,w22,ww2,I25,w15);
   mux n bit 2 to 1 \#(5) M4 (w17,w18,w19,I14);
   mux_n_bit_2_to_1 #(32) M6(w15,w16,w20,I12);
   ALU control ALU C(w16[5:0],I13,I28);
   ALU AA(w14,w20,zero,w21,I28,overflow);
   forwarding unit fu(w30, w17, w25, I22, w28, I24, I26, I25);
   EX MEM ex mem (clkOut, I17, I21, I18, I22, I15, I20, I16, I19, w21,
       w22, w15, w23, w19, w25);
   PL DataMemory dm(clkOut,w22,w23,w24,I19,I20);
   MEM WB mem wb (clkOut, I21, I23, I22, I24, w24, w26, w22, w27, w25, w28);
   mux n bit 2 to 1 \#(32) M5 (w27,w26,w29,I23);
   // DisPlay Unit
   an_counter ANCN1 (anNum,clk, reset);
   select SLCT1 (qx,dx, q0,q1,q2,q3, d0, d1, d2,d3,clk,reset);
   decoder 4 16 DCD1 (dNum, qx);
   SSD 4 sign SSD (cNum, dNum, dx);
   always @ (posedge clkOut)
       begin
          light <= light + 1;</pre>
          if (mostSig)
              begin
                 q0 <= check output[19:16]; q1 <= check output[23:20];
                 q2 <= check output[27:24]; q3 <= check output[31:28];
                 d0 <= 1; d1 <= 1; d2 <= 1; d3 <= 1;
              end
          else if (~mostSig)
              begin
                 q0 \le \text{check output}[3:0]; q1 \le \text{check output}[7:4];
                 q2 <= check output[11:8]; q3 <= check output[15:12];
                 d0 <= 1; d1 <= 1; d2 <= 1; d3 <= 1;
              end
       end
endmodule
module PL PC(clk, PC write, in, out);
                   clk,PC_write;
   input
```

```
input [31:0] in;
   output [31:0] out;
           [31:0] out;
   reg
   initial out <= 0;</pre>
   always@(negedge clk)
      if(PC write)
          out=in;
endmodule
module Add(a,b,c);
          [31:0] a,b;
   input
   output [31:0] c;
   assign c = a + b;
endmodule
module PL RegisterFile(clk,Read1,Read2,Read0,Write,WriteData,
   RegWrite,ReadData1,ReadData2,ReadData0);
          [4:0] Read1, Read2, Read0, Write;
   input
   input
                  RegWrite, clk;
   input [31:0] WriteData;
   output [31:0] ReadData1,ReadData2,ReadData0;
          [31:0] ReadData1, ReadData2, ReadData0;
   reg
          [31:0] r [31:0];
   reg
   integer
                  k;
   initial
      for (k = 0; k < 32; k = k+1)
          r[k]=32'b0;
   always @ (clk)
      begin
          monitor("Clock Time: ", time, "ns [clk] = hn", clk,
             "[\$s0] = \$h [\$s1] = \$h [\$s2] = \$h\n",r[16],r[17],r[18],
             "[$s3] = $h [$s4] = $h [$s5] = $h\n",r[19],r[20],r[21],
             "[$s6] = h [$s7] = h [$t0] = h^r,r[22],r[23],r[8],
             "[\$t1] = \$h [\$t2] = \$h [\$t3] = \$h\n",r[\$9],r[\$10],r[\$11],
             "[$t4] = $h [$t5] = $h [$t6] = $h\n",r[12],r[13],r[14],
             "[$t7] = $h [$t8] = $h [$t9] = $h",r[15],r[24],r[25]);
      end
   always@(Read1, Read2, Read0, r[Read1], r[Read2], r[Read0])
      begin
          ReadData1=r[Read1];
          ReadData2=r[Read2];
          ReadData0=r[Read0];
      end
```

```
always@(posedge clk)
    if (RegWrite==1'b1)
       r[Write]=WriteData;
endmodule
module Instruction memory(I,0);
  input
       [31:0] I;
  output [31:0] 0;
       [31:0] Imemory [127:0];
  reg
      [31:0] 0;
  reg
       [31:0] INew;
  wire
       [6:0] II;
  rea
  integer
            k;
  initial
    begin
       II=0;
       for(k = 0; k < 128; k = k + 1)
         begin
            Imemory[k] = 32'hfffffff;
         end
       //You can give your own code block here.
       Imemory[0] = 32'b001000000010001000000000001010;
       Imemory[1] = 32'b00100000001000000000000001010;
       Imemory[3] = 32'b0000001000110000100100000100000;
       Imemory[5] = 32'b000000100100100001000000100000;
       Imemory[6] = 32'b00100000000100100000000000000001;
       Imemory[7] = 32'b00000001001010000101000000101010;
//
       Imemory[7] = 32'b0000000100001010101000000101010;
       Imemory[11] = 32'b001000000010111000000000000111;
       Imemory[12] = 32'b00100000001011000000000000110;
       Imemory[15] = 32'b00100001011011000000000000000101;
       Imemory[16] = 32'b0010000110001100000000000000101;
       Imemory[17] = 32'b00000001011011000110100000100010;
       Imemory [18] = 32'b00000001011011010111000000100100;
       Imemory[19] = 32'b00000001101010000111100000100101;
       Imemory[20] = 32'b000010000000000000000000010110;
       Imemory[21] = 32'b001000000010000000000001111111;
       Imemory[22] = 32'b001000000010110000000011111111;
```

```
end
   always @(I)
      begin
         II = I[7:2];
         0 = Imemory[II];
endmodule
module shift_right_2_n_bit(a,b);
                    N=32;
   parameter
   input [N-1:0] a;
            [N-1:0] b;
   output
            [N-1:0] b;
   reg
   always @(a)
      begin
         b[N-3:0] \le a[N-1:2];
         b[N-1:N-2] \le 0;
      end
endmodule
module IF_ID(clk,Instruction_in,PC_4_in,IF_ID_write,IF_ID_flush,
   Instruction out,PC 4 out);
   input [31:0] Instruction in,PC 4 in;
                 clk,IF ID write,IF ID flush;
   output [31:0] Instruction_out, PC_4_out;
        [31:0] Instruction out, PC 4 out;
   initial
      begin
         Instruction out=0;
         PC 4 out=0;
      end
   always @(negedge clk)
      begin
         if(IF ID write)
            begin
               Instruction out <= Instruction in;</pre>
               PC 4 out <= PC 4 in;
            end
         if(IF_ID_flush)
            begin
               Instruction out <= 0;</pre>
               PC 4 out <= 0;
            end
      end
```

```
module shift_left_2_n_to_nplus2_bit(a,b);
   parameter
                  N=26;
   input [N-1:0] a;
   output [N+1:0] b;
         [N+1:0] b;
   reg
   always @(a)
      begin
         b[N+1:2] \le a[N-1:0];
         b[1:0] \le 0;
      end
endmodule
module combine(a,b,c);
   input [3:0] a;
   input [27:0] b;
   output [31:0] c;
   assign c[31:28] = a;
   assign c[27:0] = b;
endmodule
module Sign extend(in, out);
   input [15:0] in;
   output [31:0] out;
   reg [31:0] out;
   always @(in)
      begin
         out[15:0] <= in;
         if(in[15])
             out[31:16] <= 16'hFFFF;
         else if (~in[15])
             out[31:16] <= 16'h0000;
      end
endmodule
module mux_4_to_1(a,b,c,d,sel,o);
   parameter N=32;
   input [N-1:0] a,b,c,d;
   input [1:0] sel;
   output [N-1:0] o;
   wire [N-1:0] w0,w1;
   mux n_bit_2_to_1 #(N) m1(a,b,w0,sel[0]);
   mux n bit 2 to 1 \#(N) m2(c,d,w1,sel[0]);
   mux n bit 2 to 1 \#(N) m3(w0,w1,o,sel[1]);
endmodule
```

```
module mux_n_bit_2_to_1(a,b,c,sel);
   parameter
                  N=1;
   input [N-1:0] a,b;
   input
                 sel;
   output [N-1:0] c;
   reg
         [N-1:0] c;
   always @(a,b,sel)
      if(~sel)
         c=a;
      else if(sel)
         c=b;
endmodule
module equal(a,b,e or not);
                  N=32;
   parameter
   input [N-1:0] a,b;
                  e or not;
   output
   assign e or not=(a==b);
endmodule
module ALU control(funct,ALUop, ALUcontrol);
   input [5:0]
                    funct;
   input [1:0]
                    ALUop;
   output [3:0]
                    ALUcontrol;
   reg [3:0] ALUcontrol;
   always @(funct, ALUop)
      if (ALUop==2)
         begin
             case(funct)
                6'b100000: ALUcontrol=4'b0010;
                6'b100010: ALUcontrol=4'b0110;
                6'b100100: ALUcontrol=4'b0000;
                6'b100101: ALUcontrol=4'b0001;
                6'b101010: ALUcontrol=4'b0111;
             endcase
         end
      else if(ALUop==0)
         ALUcontrol=4'b0010;
      else if(ALUop==1)
         ALUcontrol=4'b0110;
      else
         ALUcontrol=0;
endmodule
module ALU(a,b,zero,ALUresult,ALUcontrol,overflow);
```

```
input [31:0] a,b;
   input [3:0] ALUcontrol;
   output
                  zero, overflow;
   output [31:0] ALUresult;
   req
                  overflow, zero;
          [31:0] ALUresult;
   reg
   always @(ALUcontrol,a,b)
      begin
          zero = (a==b);
          overflow = 0;
          case(ALUcontrol)
             4'b0000:
                ALUresult=a&b;
             4'b0001:
                ALUresult=a|b;
             4'b0010:
                begin
                    ALUresult=a+b;
                    overflow=(~a[31]&&~b[31]&&ALUresult[31])||
                    (a[31]&&b[31]&&~ALUresult[31]);
                end
             4'b0110:
                begin
                    ALUresult=a-b;
                    overflow=(a[31]&&~b[31]&&~ALUresult[31])||
                    (~a[31]&&b[31]&&ALUresult[31]);
                end
             4'b0111:
                begin
                    ALUresult=(a<b);
                 end
             default
                ALUresult=0;
          endcase
      end
endmodule
module PL control(rd,Ins,nop,MemtoReg,RegWrite,MemRead,MemWrite,
   RegDst,ALUop,ALUSrc);
   input [5:0] Ins;
   input
          [4:0] rd;
   input
                  nop;
   output
                  MemtoReg,RegWrite,MemRead,MemWrite,RegDst,ALUSrc;
   output [1:0]
                 ALUop;
                  MemtoReg,RegWrite,MemRead,MemWrite,RegDst,ALUSrc;
   reg
          [1:0]
                  ALUop;
   reg
   reg
                  flag;
```

```
begin
      MemtoReg=0;
      RegWrite=0;
      MemRead=0;
      MemWrite=0;
      RegDst=0;
      ALUop=0;
      ALUSrc=0;
      flag = 0;
   end
always @(Ins,nop,rd)
   if (~flag)
      begin
          if(~nop)
             begin
                 case(Ins)
                     6'b100011:
                        begin
                            RegDst=0;MemRead=1;MemtoReg=1;ALUop=0;
                           MemWrite=0;ALUSrc=1;RegWrite=1;
                        end//lw
                     6'b101011:
                        begin
                            RegDst=0;MemRead=0;MemtoReg=0;ALUop=0;
                           MemWrite=1;ALUSrc=1;RegWrite=0;
                        end//sw
                     6'b000000:
                        begin
                            if (rd != 0)
                               begin
                                   RegDst=1;MemRead=0;MemtoReg=0;ALUop=2;
                                  MemWrite=0;ALUSrc=0;RegWrite=1;
                               end
                           else
                               begin
                                   RegDst=0;MemRead=0;MemtoReg=0;ALUop=0;
                                  MemWrite=0;ALUSrc=0;RegWrite=0;
                               end
                        end//add, sub, or, slt
                     6'b000100:
                        begin
                            RegDst=0;MemRead=0;MemtoReg=0;ALUop=1;
                           MemWrite=0;ALUSrc=0;RegWrite=0;
                        end//beq
                     6'b000010:
                        begin
                            RegDst=0;MemRead=0;MemtoReg=0;ALUop=1;
                           MemWrite=0;ALUSrc=0;RegWrite=0;
```

```
end//j
                        6'b001000:
                           begin
                               RegDst=0;MemRead=0;MemtoReg=0;ALUop=0;
                               MemWrite=0;ALUSrc=1;RegWrite=1;
                           end//addi
                        6'b111111:
                           begin
                               MemWrite=0; RegWrite=0; flag=1;
                           and
                        default:
                           begin
                               RegDst=0;MemRead=0;MemtoReg=0;ALUop=0;
                               MemWrite=0;ALUSrc=0;RegWrite=0;
                           end
                    endcase
                 end
             else if (nop)
                 begin
                    MemtoReq=0;
                    RegWrite=0;
                    MemRead=0;
                    MemWrite=0;
                    RegDst=0;
                    ALUop=0;
                    ALUSrc=0;
                 end
          end
endmodule
module ID EX(clk,MtoR in,MtoR out,RegW in,RegW out,MRead in,MRead out,
   MWrite in, MWrite out, RegDst in, RegDst out, ALUop in, ALUop out,
   ALUSTC in, ALUSTC out, R1 in, R1 out, R2 in, R2 out, SignExt in,
   SignExt out,Rt in,Rt out,Rd in,Rd out,Rs in,Rs out);
   input
                  clk,MtoR in,RegW in,MRead in,MWrite in,
                  RegDst in, ALUsrc in;
          [1:0] ALUop in;
   input
          [31:0] R1 in,R2 in,SignExt in;
   input
   input
          [4:0] Rt in, Rd in, Rs in;
   output
                  MtoR out, RegW out, MRead out, MWrite out,
                  RegDst out, ALUsrc out;
   output [1:0] ALUop out;
   output [31:0] R1 out,R2 out,SignExt out;
   output [4:0] Rt out,Rd out,Rs out;
                  MtoR out, RegW out, MRead out, MWrite out,
   reg
                  RegDst out, ALUsrc out;
           [1:0] ALUop out;
   reg
           [31:0] R1 out, R2 out, SignExt out;
   reg
                  Rt_out,Rd_out,Rs_out;
           [4:0]
   reg
```

```
initial
      begin
          MtoR out=0;
          RegW out=0;
          MRead out=0;
          MWrite out=0;
          RegDst out=0;
          ALUsrc out=0;
         ALUop out=0;
          R1 out=0;
          R2 out=0;
          SignExt out=0;
          Rt out=0;
          Rd out=0;
          Rs out=0;
      end
   always @(negedge clk)
      begin
          MtoR out=MtoR in;
          RegW out=RegW in;
          MRead out=MRead in;
          MWrite out=MWrite in;
          RegDst out=RegDst in;
          ALUsrc out=ALUsrc in;
          ALUop out=ALUop in;
          R1_out=R1_in;
          R2 out=R2 in;
          SignExt out=SignExt in;
          Rt out=Rt in;
          Rd out=Rd in;
          Rs out=Rs in;
      end
endmodule
module EX MEM(clk,MtoR in,MtoR out,RegW in,RegW out,MRead in,MRead out,
   MWrite in, MWrite out, ALUResult in, ALUResult out,
   R2 in,R2 out,Rd in,Rd out);
                  clk,MtoR in,RegW in,MRead in,MWrite in;
   input
   input [31:0] ALUResult in,R2 in;
   input [4:0] Rd in;
                  MtoR out, RegW out, MRead out, MWrite out;
   output
   output [31:0] ALUResult_out,R2_out;
   output [4:0] Rd out;
                  MtoR out, RegW out, MRead out, MWrite out;
   reg
          [31:0] ALUResult_out,R2 out;
   req
         [4:0] Rd out;
   reg
```

```
initial
      begin
         MtoR out=0;
          RegW out=0;
         MRead out=0;
          MWrite out=0;
          ALUResult out=0;
          R2 out=0;
          Rd out=0;
      end
   always @(negedge clk)
      begin
          MtoR out=MtoR in;
          RegW out=RegW in;
          MRead out=MRead in;
          MWrite out=MWrite in;
          ALUResult out=ALUResult in;
          R2 out=R2 in;
          Rd out=Rd in;
      end
endmodule
module MEM WB(clk, MtoR in, MtoR out, RegW in, RegW out, DM in,
   DM out, ALU in, ALU out, Rd in, Rd out);
                  clk,MtoR in,RegW in;
   input
   input [31:0] DM_in,ALU_in;
   input [4:0] Rd_in;
   output
                 MtoR out, RegW out;
   output [31:0] DM out,ALU out;
   output [4:0] Rd out;
                  MtoR out, RegW out;
   reg
   reg [31:0] DM_out,ALU_out;
   reg
         [4:0] Rd_out;
   initial
      begin
         MtoR out=0;
         RegW out=0;
          DM out=0;
          ALU out=0;
          Rd out=0;
      end
   always @(negedge clk)
      begin
          MtoR out=MtoR in;
          RegW out=RegW in;
          DM out=DM in;
```

```
ALU out=ALU in;
          Rd out=Rd in;
      end
endmodule
module PL DataMemory(clk,I,WriteData,O,MemWrite,MemRead);
   parameter
                     N = 64;
   input
             [31:0] I, WriteData;
   input
                      MemWrite, MemRead, clk;
   output
             [31:0] O;
              [31:0] 0;
   reg
              [31:0] im [N-1:0];
   reg
   wire
                     INew;
                    i;
   integer
   initial
      for (i=0; i<N; i=i+1)</pre>
          im[i]=32'b0;
   always @ (posedge clk)
      if (MemWrite)
          if(INew < N)</pre>
                 im[INew]=WriteData;
   always @ (MemRead, INew)
      if (MemRead)
          if(INew < N)</pre>
             O=im[INew];
   shift_right_2_n_bit sr (I,INew);
endmodule
module forwarding unit (ID EX RegRs, ID EX RegRt, EX MEM RegRd,
   EX MEM RegWrt, MEM WB RegRd, MEM WB RegWrt, FwdA, FwdB);
   input [4:0] ID EX RegRs,ID EX RegRt,EX MEM RegRd,MEM WB RegRd;
   input
                  EX MEM RegWrt, MEM WB RegWrt;
   output [1:0] FwdA, FwdB;
         [1:0] FwdA, FwdB;
   reg
   initial
      begin
          FwdA=0;
          FwdB=0;
      end
   always @ (ID_EX_RegRs,ID_EX_RegRt,EX_MEM_RegRd,
      EX MEM RegWrt, MEM WB RegRd, MEM WB RegWrt)
      begin
          if (EX MEM RegWrt & (EX MEM RegRd != 0) &
              (EX_MEM_RegRd == ID_EX_RegRs))
```

```
else if (MEM WB RegWrt & (MEM WB RegRd != 0) &
              (MEM WB RegRd == ID EX RegRs))
             FwdA = 1;
          else
             FwdA = 0;
          if (EX MEM RegWrt & (EX MEM RegRd != 0) &
              (EX MEM_RegRd == ID_EX_RegRt))
             FwdB = 2;
          else if (MEM WB RegWrt & (MEM WB RegRd != 0) &
              (MEM WB RegRd == ID EX RegRt))
             FwdB = 1;
          else
             FwdB = 0;
      end
endmodule
module hazard detection unit and branch (Ins, Rs, Rt, eq, EX Rd, MEM Rd,
   EX MemRead, MEM MemRead, EX RW, MEM RW, PC write, B Sel,
   IF ID write, IF ID flush, nop);
   input [5:0] Ins;
   input [4:0] Rs, Rt, EX_Rd, MEM_Rd;
   input
                  EX MemRead, MEM MemRead, eq, EX RW, MEM RW;
   output
                  nop,PC write,IF ID write,IF ID flush;
   output [1:0] B Sel;
   reg
                  nop, PC write, IF ID write, IF ID flush;
           [1:0] B_Sel;
   reg
   initial
      begin
          nop=0;
          PC write=1;
          IF ID write=1;
          IF ID flush=0;
          B Sel=1;
      end
   always@(Ins,Rs,Rt,EX Rd,MEM Rd,EX MemRead,MEM MemRead,EX RW,MEM RW,eq)
      if (Ins == 6'b111111)
          begin
             PC write = 0;
             IF ID write=0;
             nop = 1;
      else if(Ins==6'b000010)
          begin
             B Sel=2;
             PC write=1;
```

FwdA = 2;

```
IF ID flush=1;
      IF_ID_write=1;
      nop=0;
else if(Ins==6'b000100)
   begin
       if(((EX RW==1'b1)&&(EX Rd!=0)&&(EX Rd==Rs||EX Rd==Rt))||
          ( (MEM_RW==1'b1) && (MEM_Rd!=0) && (MEM_Rd==Rs||MEM_Rd==Rt)))
          begin
             B Sel=1;
             PC write=0;
             IF ID write=0;
             IF_ID_flush=0;
             nop=1;
          end
      else if(eq==1'b1)
          begin
             B Sel=0;
             IF ID flush=1;
             IF_ID_write=0;
             PC write=1;
             nop=0;
          end
      else
          begin
             B Sel=1;
             IF ID flush=0;
             IF_ID_write=1;
             PC_write=1;
             nop=0;
          end
   end
else if(EX MemRead==1'b1&&(EX Rd==Rs||EX Rd==Rt))
   begin
      B Sel=1;
      PC write=0;
      IF ID write=0;
      IF ID flush=0;
      nop=1;
   end
else
   begin
      B Sel=1;
      PC_write=1;
      IF_ID_write=1;
      IF ID flush=0;
      nop=0;
   end
```

```
module an_counter(an, clkIn, reset);
   output [3:0] an;
   input
                 reset, clkIn;
         [3:0] an;
   reg
   reg
         [31:0] c;
   always @ (posedge clkIn or posedge reset)
      if (reset)
          begin
             an <= 4'b1110;
             c <= 0;
          end
      else if (c == 32'h0003D090)
          begin
             c <= 0;
             if (~an[0])
                an <= 4'b1101;
             else if (~an[1])
                an <= 4'b1011;
             else if (~an[2])
                an <= 4'b0111;
             else if (~an[3])
                an <= 4'b1110;
          end
      else
         c \le c + 1;
endmodule
module divider(clkOut, clkIn, clkRst);
   output
                clkOut;
                 clkIn, clkRst;
   input
   reg [31:0] c;
   reg
                 clkOut;
   always @ (posedge clkRst or posedge clkIn)
      if (clkRst)
          begin
             clkOut <= 1;
             c <= 0;
      else if (c == 32'h02FAF07F)
          begin
             clkOut <= 1;
             c <= 0;
          end
      else if (c < 32'h017D783F)</pre>
          begin
             clkOut <= 1;
```

```
c <= c + 1;
          end
      else
          begin
             clkOut <= 0;
             c \le c + 1;
          end
endmodule
module select(qx, dx, q0, q1, q2, q3, d0, d1, d2, d3, clkIn, reset);
   input
          [3:0] q0, q1, q2, q3;
   input
                  d0, d1, d2, d3, clkIn, reset;
   output [3:0] qx;
   output
                  dx;
         [1:0] flag;
   reg
   reg
         [3:0] qx;
   reg [31:0] c;
   reg
   always @ (posedge clkIn or posedge reset)
      if (reset)
          begin
             flag <= 0;
             c <= 0;
             qx <= q0;
          end
      else if (c == 32'h0003D090)
          begin
             flag <= flag + 1;</pre>
             c <= 0;
             if (flag == 3)
                begin
                    qx <= q0;
                    dx \leq d0;
                 end
             else if (flag == 0)
                begin
                    qx <= q1;
                    dx <= d1;
                 end
             else if (flag == 1)
                begin
                    qx <= q2;
                    dx <= d2;
                 end
             else if (flag == 2)
                begin
                    qx <= q3;
                    dx \leq d3;
```

```
end
           end
       else
           c \le c + 1;
endmodule
module SSD 4 sign(c, d, disp);
   output [6:0]
                   C;
   input [15:0] d;
   input
                    disp;
   assign c[0] = (d[1] \mid d[4] \mid d[11] \mid d[13]) \mid (\sim disp);
   assign c[1] = (d[5] \mid d[6] \mid d[11] \mid d[12] \mid d[14] \mid d[15]) \mid (\sim disp);
   assign c[2] = (d[2] | d[12] | d[14] | d[15]) | (~disp);
   assign c[3] = (d[1] \mid d[4] \mid d[7] \mid d[10] \mid d[15]) \mid (\sim disp);
   assign c[4] = (d[1] \mid d[3] \mid d[4] \mid d[5] \mid d[7] \mid d[9]) \mid (\sim disp);
   assign c[5] = (d[1] | d[2] | d[3] | d[7] | d[13]) | (~disp);
   assign c[6] = (d[0] \mid d[1] \mid d[7] \mid d[12]) \mid (\sim disp);
endmodule
module decoder 4 16(d, q);
   output[15:0]
                     d;
   input [3:0]
   assign d[0] = (\sim q[3]) & (\sim q[2]) & (\sim q[1]) & (\sim q[0]);
   assign d[1] = (\sim q[3]) & (\sim q[2]) & (\sim q[1]) & (q[0]);
   assign d[2] = (\sim q[3]) & (\sim q[2]) & (q[1]) & (\sim q[0]);
   assign d[3] = (\sim q[3]) & (\sim q[2]) & (q[1]) & (q[0]);
   assign d[4] = (\sim q[3]) & (q[2]) & (\sim q[1]) & (\sim q[0]);
   assign d[5] = (\sim q[3]) & (q[2]) & (\sim q[1]) & (q[0]);
   assign d[6] = (\neg q[3]) & (q[2]) & (q[1]) & (\neg q[0]);
   assign d[7] = (\sim q[3]) & (q[2]) & (q[1]) & (q[0]);
   assign d[8] = (q[3]) & (\sim q[2]) & (\sim q[1]) & (\sim q[0]);
   assign d[9] = (q[3]) & (\sim q[2]) & (\sim q[1]) & (q[0]);
   assign d[10] = (q[3]) & (\sim q[2]) & (q[1]) & (\sim q[0]);
   assign d[11] = (q[3]) & (\neg q[2]) & (q[1]) & (q[0]);
   assign d[12] = (q[3]) & (q[2]) & (~q[1]) & (~q[0]);
   assign d[13] = (q[3]) & (q[2]) & (~q[1]) & (q[0]);
   assign d[14] = (q[3]) & (q[2]) & (q[1]) & (~q[0]);
   assign d[15] = (q[3]) & (q[2]) & (q[1]) & (q[0]);
endmodule
```

## **Appendix D: Pipelined CPU Test Bench**

```
module Pipeline_test;
   reg clk,reset;
   reg [4:0] check input;
   wire [6:0] cNum;
   wire [3:0] anNum;
   wire [7:0] light;
   Pipeline uut (
      .clk(clk),
      .check_input(check_input),
      .reset(reset),
      .cNum(cNum),
      .anNum(anNum),
      .light(light)
   );
   initial begin
         clk = 1;
          reset = 0;
   end
   always #20 clk = ~clk;
endmodule
```

## Appendix E: Simulation Result for TA's Test Case with Single-cycle CPU

```
0 [clk] = 1
Time:
[\$s0] = 00000000 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               0 [clk] = 0
[\$s0] = 00000000 [\$s1] = 00000000 [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               1 [clk] = 1
Time:
[\$s0] = 00000000 [\$s1] = 00000000 [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               1 [clk] = 0
Time:
[\$s0] = 00000000 [\$s1] = 00000000 [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               2 [clk] = 1
[\$s0] = 00000000 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               2 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               3 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               3 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               4 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               4 \quad [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               5 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               5 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               6 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               6 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               7 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               7 \text{ [clk]} = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               8 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               8 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               9 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               9 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              10 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              10 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              11 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              11 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              12 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              12 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              13 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              13 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              14 \ [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              14 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              15 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              15 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              16 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              16 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              17 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              17 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              18 \ [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              18 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              19 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              19 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              20 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              20 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              21 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              21 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              22 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              22 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              23 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              23 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              24 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              24 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              25 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
              25 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              26 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              26 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              27 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              27 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
```

```
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              28 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              28 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              29 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              29 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              30 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              30 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              31 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
```

```
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              31 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              32 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              32 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              33 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              33 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              34 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              34 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
```

```
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              35 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              35 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              36 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              36 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              37 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              37 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
                       38 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
```

```
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              38 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              39 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              39 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              40 \text{ [clk]} = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              40 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              41 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              41 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
```

```
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              42 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              42 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              43 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              43 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              44 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              44 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              45 \text{ [clk]} = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
```

```
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              45 \text{ [clk]} = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              46 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              46 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              47 \text{ [clk]} = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              47 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              48 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              48 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
```

```
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              49 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              49 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              50 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
Time:
              50 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              51 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              51 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              52 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
```

```
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              52 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              53 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              53 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              54 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              54 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              55 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              55 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
```

```
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              56 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              56 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              57 \text{ [clk]} = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              57 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              58 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              58 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              59 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
```

```
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              59 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              60 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              60 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              61 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              61 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              62 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              62 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
```

```
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              63 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              63 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              64 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              64 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              65 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              65 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              66 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
```

```
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              66 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              67 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              67 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              68 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              68 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              69 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              69 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
```

```
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              70 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              70 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              71 \text{ [clk]} = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              71 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              72 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              72 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              73 \text{ [clk]} = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
```

```
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              73 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              74 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              74 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              75 \text{ [clk]} = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
              75 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              76 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              76 [clk] = 0
Time:
```

```
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              77 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              77 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              78 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              78 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              79 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              79 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              80 [clk] = 1
Time:
```

```
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              80 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              81 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              81 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              82 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              82 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              83 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              83 [clk] = 0
Time:
```

```
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              84 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              84 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              85 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              85 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              86 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              86 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              87 [clk] = 1
Time:
```

```
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              87 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              88 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              88 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              89 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              89 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              90 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              90 [clk] = 0
Time:
```

```
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              91 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              91 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              92 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              92 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              93 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              93 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              94 [clk] = 1
Time:
```

```
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              94 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              95 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              95 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              96 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              96 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              97 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              97 [clk] = 0
Time:
```

```
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              98 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              98 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              99 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              99 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             100 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
Time:
             100 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
101 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             101 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             102 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             102 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             103 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             103 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             104 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
104 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             105 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             105 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             106 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             106 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             107 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             107 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
108 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             108 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             109 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             109 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             110 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             110 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             111 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
111 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             112 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             112 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             113 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             113 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             114 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             114 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
115 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             115 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             116 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             116 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             117 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             117 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             118 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
118 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             119 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             119 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             120 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             120 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             121 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             121 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
122 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             122 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             123 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             123 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             124 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             124 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             125 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
run 1000 ns
            125 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             126 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             126 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             127 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             127 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             128 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             128 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
```

```
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
            129 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             129 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             130 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             130 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             131 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             131 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             132 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
```

```
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
            132 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             133 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             133 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             134 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             134 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             135 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             135 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
```

```
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
            136 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             136 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             137 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             137 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             138 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             138 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             139 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
```

```
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
            139 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             140 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             140 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             141 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             141 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             142 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             142 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
```

```
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
            143 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             143 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             144 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             144 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             145 \text{ [clk]} = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             145 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             146 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
```

```
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
            146 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             147 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             147 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             148 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             148 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             149 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             149 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
```

```
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
            150 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
Time:
             150 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             151 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             151 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             152 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             152 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             153 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
```

```
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             153 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             154 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             154 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             155 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             155 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             156 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             156 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
```

```
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             157 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             157 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             158 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             158 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             159 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             159 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             160 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
```

```
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             160 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             161 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             161 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             162 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             162 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             163 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             163 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
```

```
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             164 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             164 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             165 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             165 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             166 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             166 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             167 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
```

```
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             167 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             168 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             168 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             169 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             169 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             170 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             170 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
```

```
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             171 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             171 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             172 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             172 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             173 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             173 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             174 \text{ [clk]} = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
```

```
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             174 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             175 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
             175 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             176 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             176 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             177 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             177 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             178 \text{ [clk]} = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             178 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             179 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             179 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             180 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             180 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             181 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             181 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             182 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             182 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             183 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             183 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             184 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             184 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             185 \text{ [clk]} = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             185 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             186 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             186 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             187 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             187 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             188 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             188 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             189 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             189 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             190 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             190 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             191 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             191 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             192 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             192 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             193 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             193 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             194 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             194 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             195 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             195 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             196 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             196 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             197 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             197 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             198 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             198 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             199 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             199 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             200 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

## **Appendix F: Simulation Result for TA's Test Case with Pipelined CPU**

```
0 [clk] = 1
Time:
[\$s0] = 00000000 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               0 [clk] = 0
[\$s0] = 00000000 [\$s1] = 00000000 [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               1 [clk] = 1
Time:
[\$s0] = 00000000 [\$s1] = 00000000 [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               1 [clk] = 0
Time:
[\$s0] = 00000000 [\$s1] = 00000000 [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               2 [clk] = 1
[\$s0] = 00000000 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               2 [clk] = 0
Time:
[\$s0] = 00000000 [\$s1] = 00000000 [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               3 [clk] = 1
[\$s0] = 00000000 [\$s1] = 00000000 [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
```

```
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               3 [clk] = 0
[\$s0] = 00000000 [\$s1] = 00000000 [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000000
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               4 [clk] = 1
[\$s0] = 00000000 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               4 [clk] = 0
[\$s0] = 00000000 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000000 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               5 [clk] = 1
[\$s0] = 00000000 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               5 [clk] = 0
Time:
[\$s0] = 00000000 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               6 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               6 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = 00000000 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               7 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               7 \text{ [clk]} = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000000
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               8 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               8 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000000 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
               9 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
               9 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000000 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              10 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              10 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              11 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              11 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              12 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              12 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              13 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              13 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              14 \ [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              14 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              15 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              15 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              16 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              16 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              17 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              17 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              18 \ [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              18 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              19 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              19 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              20 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              20 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              21 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              21 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              22 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              22 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              23 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              23 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              24 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              24 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              25 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
              25 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              26 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              26 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              27 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              27 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
```

```
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              28 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              28 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              29 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              29 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              30 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              30 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              31 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
```

```
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              31 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              32 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              32 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              33 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              33 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              34 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              34 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
```

```
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              35 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              35 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              36 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              36 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              37 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              37 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              38 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
```

```
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              38 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              39 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              39 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              40 \text{ [clk]} = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              40 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              41 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              41 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
```

```
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              42 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              42 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              43 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              43 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              44 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              44 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              45 \text{ [clk]} = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
```

```
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              45 \text{ [clk]} = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              46 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              46 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              47 \text{ [clk]} = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              47 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              48 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              48 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
```

```
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              49 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              49 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              50 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
Time:
              50 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              51 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              51 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              52 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
```

```
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              52 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              53 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              53 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              54 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              54 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              55 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              55 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
```

```
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              56 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              56 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              57 \text{ [clk]} = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              57 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              58 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              58 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              59 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
```

```
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              59 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              60 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              60 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              61 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              61 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              62 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              62 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
```

```
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              63 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              63 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              64 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              64 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              65 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              65 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              66 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
```

```
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              66 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              67 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              67 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              68 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              68 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              69 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              69 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
```

```
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              70 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              70 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              71 \text{ [clk]} = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              71 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              72 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              72 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              73 \text{ [clk]} = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
```

```
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              73 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              74 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              74 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              75 \text{ [clk]} = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
              75 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              76 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              76 [clk] = 0
Time:
```

```
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              77 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              77 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              78 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              78 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              79 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              79 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              80 [clk] = 1
Time:
```

```
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              80 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              81 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              81 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              82 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              82 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              83 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              83 [clk] = 0
Time:
```

```
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              84 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              84 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              85 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              85 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              86 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              86 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              87 [clk] = 1
Time:
```

```
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              87 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              88 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              88 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              89 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              89 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              90 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              90 [clk] = 0
Time:
```

```
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              91 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              91 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              92 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              92 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              93 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              93 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              94 [clk] = 1
Time:
```

```
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              94 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              95 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              95 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              96 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              96 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              97 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              97 [clk] = 0
Time:
```

```
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              98 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
              98 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              99 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
              99 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             100 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
Time:
             100 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
101 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             101 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             102 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             102 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             103 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             103 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             104 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
104 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             105 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             105 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             106 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             106 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             107 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             107 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
108 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             108 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             109 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             109 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             110 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             110 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             111 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
111 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             112 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             112 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             113 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             113 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             114 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             114 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
115 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             115 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             116 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             116 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             117 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             117 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             118 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
118 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             119 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             119 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             120 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             120 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             121 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             121 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
122 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             122 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             123 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             123 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             124 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             124 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             125 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```

```
run 1000 ns
            125 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             126 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             126 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             127 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             127 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             128 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             128 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
```

```
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
            129 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             129 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             130 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             130 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             131 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             131 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             132 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
```

```
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
            132 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             133 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             133 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             134 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             134 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             135 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             135 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
```

```
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
            136 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             136 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             137 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             137 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             138 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             138 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             139 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
```

```
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
            139 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             140 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             140 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             141 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             141 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             142 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             142 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
```

```
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
            143 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             143 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             144 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             144 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             145 \text{ [clk]} = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             145 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             146 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
```

```
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
            146 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             147 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             147 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             148 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             148 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             149 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             149 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
```

```
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
            150 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
Time:
             150 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             151 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             151 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             152 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             152 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             153 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
```

```
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             153 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             154 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             154 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             155 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             155 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             156 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             156 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
```

```
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             157 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             157 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             158 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             158 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             159 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             159 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             160 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
```

```
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             160 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             161 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             161 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             162 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             162 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             163 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             163 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
```

```
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             164 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             164 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             165 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             165 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             166 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             166 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             167 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
```

```
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             167 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             168 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             168 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             169 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             169 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             170 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             170 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
```

```
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             171 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             171 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             172 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             172 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             173 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             173 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             174 \text{ [clk]} = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
```

```
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             174 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             175 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
run 1000 ns
             175 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             176 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             176 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             177 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             177 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             178 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             178 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             179 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             179 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             180 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             180 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             181 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             181 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             182 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             182 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             183 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             183 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             184 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             184 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             185 \text{ [clk]} = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             185 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             186 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             186 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             187 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             187 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             188 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             188 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             189 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             189 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             190 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             190 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             191 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             191 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             192 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             192 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             193 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             193 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             194 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             194 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             195 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             195 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             196 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             196 [clk] = 0
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             197 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             197 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
Time:
             198 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             198 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
```

```
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             199 [clk] = 1
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             199 [clk] = 0
Time:
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
             200 [clk] = 1
[\$s0] = 00000057 \ [\$s1] = ffffffe9 \ [\$s2] = 00000020
[\$s3] = 00000037 \ [\$s4] = 00000001 \ [\$s5] = 00000000
[\$s6] = 00000000 \ [\$s7] = 00000000 \ [\$t0] = 00000020
[\$t1] = 00000037 \ [\$t2] = 00000000 \ [\$t3] = 00000000
[\$t4] = 00000000 \ [\$t5] = 00000000 \ [\$t6] = 00000000
[\$t7] = 00000000 \ [\$t8] = 00000000 \ [\$t9] = 00000000
```