

```
vlib work
vlog -timescale 1ns/1ns fpga_top.v
vsim fpga_top
```

```
log {/*}
add wave {/*}
```

```
# clk signal
force {CLOCK_50} 0 0, 1 2 -r 4
```

```
force {KEY[0]} 1
```

```
# go
force {KEY[1]} 0
```

```
# load in A
force {SW[0]} 0
force {SW[1]} 1
force {SW[2]} 1
force {SW[3]} 0
force {SW[4]} 0
force {SW[5]} 0
force {SW[6]} 0
force {SW[7]} 0
```

```
run 10ns
```

```
# go signal
force {KEY[1]} 1
```

```
run 10ns
```

```
# go
force {KEY[1]} 0
```

```
# load in B
force {SW[0]} 1
force {SW[1]} 1
force {SW[2]} 1
force {SW[3]} 0
force {SW[4]} 0
force {SW[5]} 0
force {SW[6]} 0
force {SW[7]} 0
```

```
run 10ns
```

```
# go signal
force {KEY[1]} 1
```

```
run 10ns
```

```
# go
force {KEY[1]} 0
```

```
# load in C
force {SW[0]} 0
force {SW[1]} 1
force {SW[2]} 1
force {SW[3]} 1
force {SW[4]} 0
force {SW[5]} 0
force {SW[6]} 0
force {SW[7]} 0
```

```
run 10ns
```

```
# go signal
force {KEY[1]} 1
```

```
run 10ns
```

```
# go
force {KEY[1]} 0
```

```
# load in X
force {SW[0]} 1
force {SW[1]} 1
force {SW[2]} 0
force {SW[3]} 0
force {SW[4]} 0
force {SW[5]} 0
force {SW[6]} 0
force {SW[7]} 0
```

```
run 10ns
```

```
# go signal
force {KEY[1]} 1
```

```
run 50ns
```

