```
NET "clk" TNM_NET = clk;
TIMESPEC TS_CLK = PERIOD "clk" 5 ns HIGH 50%;

NET "address<0>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<1>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<2>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<3>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<4>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<5>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<6>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<7>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<8>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<9>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<10>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<11>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<12>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<13>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<14>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<15>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<16>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<17>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<18>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<19>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<20>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<21>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<22>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<23>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<24>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<25>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<26>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<27>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<28>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<29>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<30>" OFFSET = OUT 3 ns AFTER "clk";
NET "address<31>" OFFSET = OUT 3 ns AFTER "clk";

NET "d<0>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<1>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<2>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<3>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<4>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<5>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<6>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<7>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<8>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<9>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<10>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<11>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<12>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<13>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<14>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<15>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<16>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<17>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<18>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<19>" OFFSET = OUT 4 ns AFTER "clk";
NET "d<20>" OFFSET = OUT 4 ns AFTER "clk";
```

```
  58   NET "d<21>" OFFSET = OUT 4 ns AFTER "clk";
  59   NET "d<22>" OFFSET = OUT 4 ns AFTER "clk";
  60   NET "d<23>" OFFSET = OUT 4 ns AFTER "clk";
  61   NET "d<24>" OFFSET = OUT 4 ns AFTER "clk";
  62   NET "d<25>" OFFSET = OUT 4 ns AFTER "clk";
  63   NET "d<26>" OFFSET = OUT 4 ns AFTER "clk";
  64   NET "d<27>" OFFSET = OUT 4 ns AFTER "clk";
  65   NET "d<28>" OFFSET = OUT 4 ns AFTER "clk";
  66   NET "d<29>" OFFSET = OUT 4 ns AFTER "clk";
  67   NET "d<30>" OFFSET = OUT 4 ns AFTER "clk";
  68   NET "d<31>" OFFSET = OUT 4 ns AFTER "clk";
  69
  70   NET "read" OFFSET = OUT 2 ns AFTER "clk";
  71   NET "write" OFFSET = OUT 2 ns AFTER "clk";
  72
  73   NET "d<0>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  74   NET "d<1>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  75   NET "d<2>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  76   NET "d<3>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  77   NET "d<4>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  78   NET "d<5>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  79   NET "d<6>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  80   NET "d<7>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  81   NET "d<8>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  82   NET "d<9>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  83   NET "d<10>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  84   NET "d<11>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  85   NET "d<12>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  86   NET "d<13>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  87   NET "d<14>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  88   NET "d<15>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  89   NET "d<16>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  90   NET "d<17>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  91   NET "d<18>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  92   NET "d<19>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  93   NET "d<20>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  94   NET "d<21>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  95   NET "d<22>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  96   NET "d<23>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  97   NET "d<24>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  98   NET "d<25>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
  99   NET "d<26>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
 100   NET "d<27>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
 101   NET "d<28>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
 102   NET "d<29>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
 103   NET "d<30>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
 104   NET "d<31>" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
 105
 106   NET "done" OFFSET = IN 3 ns VALID 4 ns BEFORE "clk" RISING;
 107
 108
```