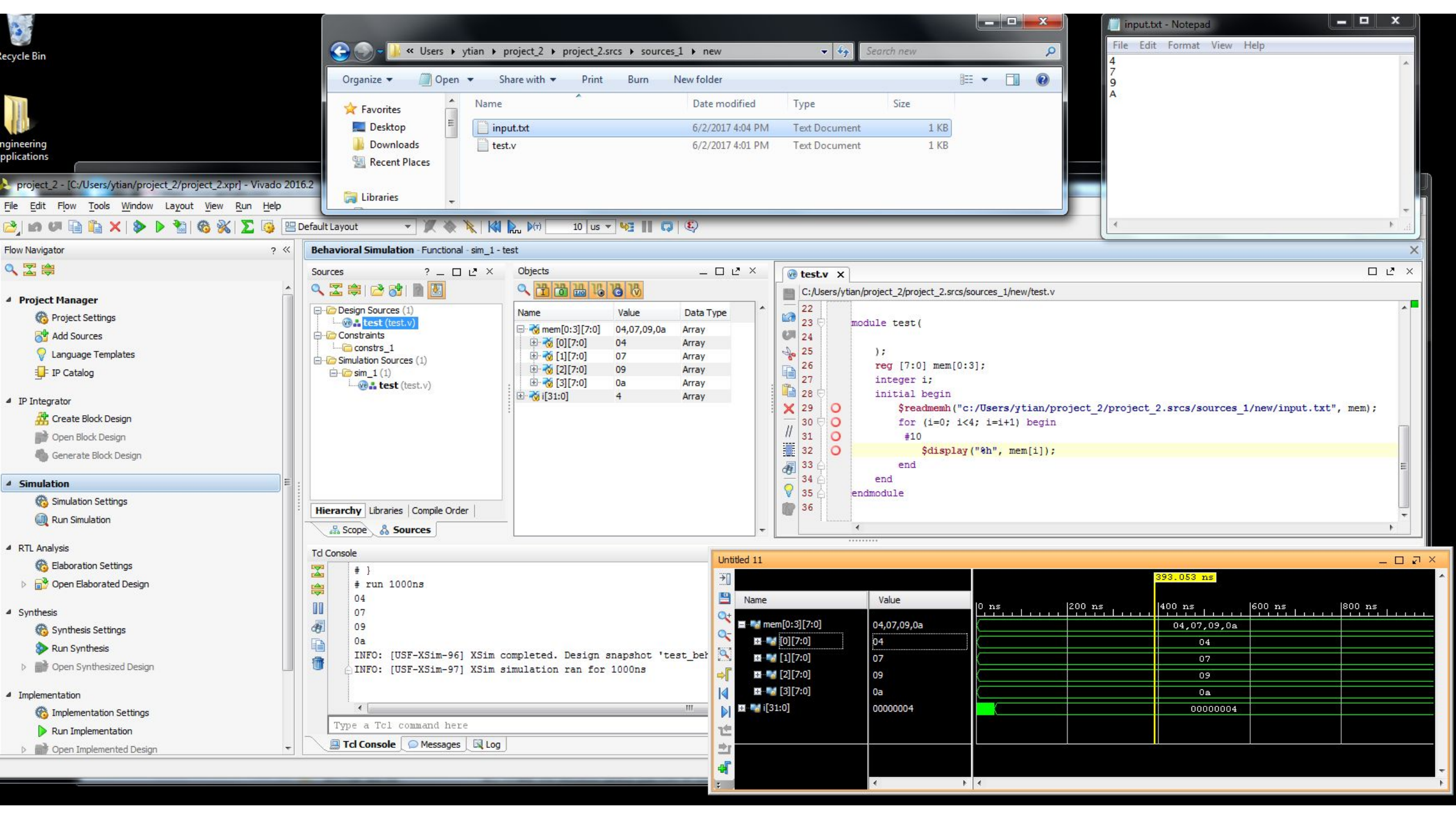
Example for $readmemh


Recycle Bin
ngineering
pplications
Users ytian project_2 project_2.srcs sources_1 new
Search new
Organize
Open
Share with
Print
Burn
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Name
Date modified
Type
Size
input.txt
6/2/2017 4:04 PM
Text Document
1 KB
test.v
6/2/2017 4:01 PM
Text Document
1 KB
input.txt - Notepad
File Edit Format View Help
4
7
9
A
project_2 - [C:/Users/ytian/project_2/project_2.xpr] - Vivado 2016.2
File Edit Flow Tools Window Layout View Run Help
Default Layout
10 us
Flow Navigator
Project Manager
Project Settings
Add Sources
Language Templates
IP Catalog
IP Integrator
Create Block Design
Open Block Design
Generate Block Design
Simulation
Simulation Settings
Run Simulation
RTL Analysis
Elaboration Settings
Open Elaborated Design
Synthesis
Synthesis Settings
Run Synthesis
Open Synthesized Design
Implementation
Implementation Settings
Run Implementation
Open Implemented Design
Behavioral Simulation - Functional - sim_1 - test
Sources
Design Sources (1)
test (test.v)
Constraints
constrs_1
Simulation Sources (1)
sim_1 (1)
test (test.v)
Hierarchy
Libraries
Compile Order
Scope
Sources
Objects
Name
Value
Data Type
mem[0:3][7:0]
04,07,09,0a
Array
[0][7:0]
04
Array
[1][7:0]
07
Array
[2][7:0]
09
Array
[3][7:0]
0a
Array
i[31:0]
4
Array
test.v
C:/Users/ytian/project_2/project_2.srcs/sources_1/new/test.v
22
23 module test(
24
25);
26 reg [7:0] mem[0:3];
27 integer i;
28 initial begin
29 $readmemh("c:/Users/ytian/project_2/project_2.srcs/sources_1/new/input.txt", mem);
30 for (i=0; i<4; i=i+1) begin
31 #10
32 $display("%h", mem[i]);
33 end
34 end
35 endmodule
36
Tcl Console
}
run 1000ns
04
07
09
0a
INFO: [USF-XSim-96] XSim completed. Design snapshot 'test_beh
INFO: [USF-XSim-97] XSim simulation ran for 1000ns
Type a Tcl command here
Tcl Console
Messages
Log
Untitled 11
Name
Value
mem[0:3][7:0]
04,07,09,0a
[0][7:0]
04
[1][7:0]
07
[2][7:0]
09
[3][7:0]
0a
i[31:0]
00000004
393.053 ns
0 ns
200 ns
400 ns
600 ns
800 ns
04,07,09,0a
04
07
09
0a
00000004