

MSD 585 FALL 2022

Final Project 18

Checkpoint 1

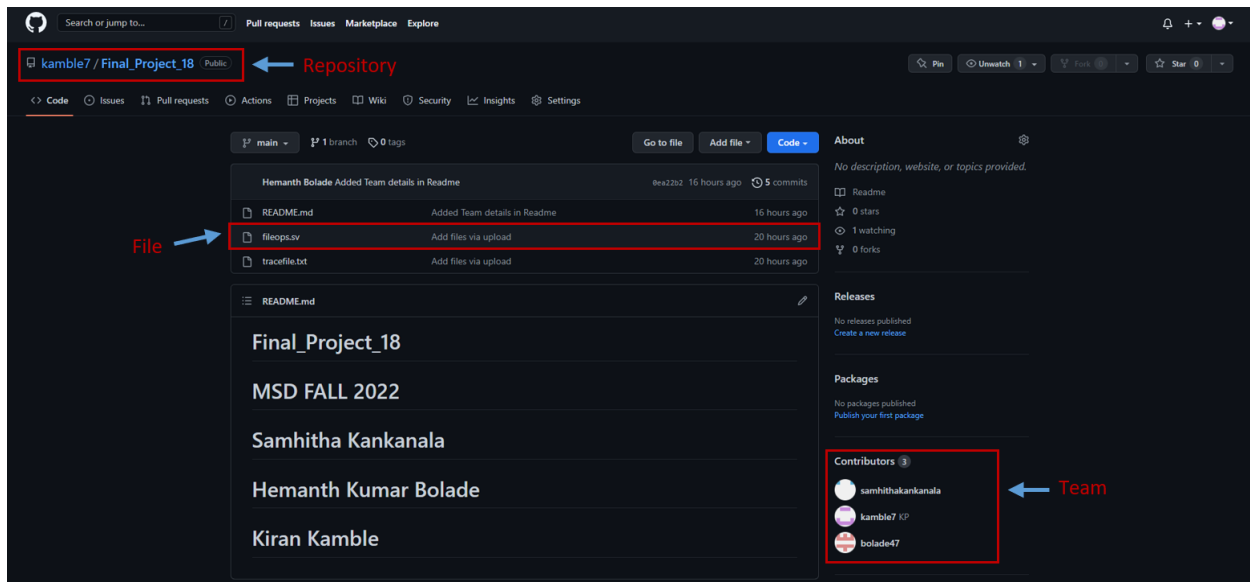
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Teams GITHUB repository:



code to open a user-specified trace file with ability to accept a runtime flag or command to determine silent or normal running mode and parse trace file contents into command and (hexadecimal) address (displaying each in debug mode)

Below is the Code, trace file and transcript:

Source Code:

```
module fileops ();  
  
string filename,mode,command,s;  
  
integer address;  
  
integer fd_r;  
  
initial  
  
begin  
  
if ($value$plusargs ("filename=%s", filename))  
    $display ("Input File_name : %s",filename);  
  
if ($value$plusargs ("mode=%s", mode))  
    $display ("Operating Mode : %s",mode);  
  
fd_r = $fopen (filename,"r");
```

```

if (fd_r)
    $display ("File %s is opened successfully", filename);
else
    $display ("File %s is NOT opened successfully", filename);
while (!$feof(fd_r))
begin
    $fscanf (fd_r,"%s",command);
    $fscanf (fd_r,"%h",address);
    $display ("command: %d, address: %h",command,address);
end
$fclose (fd_r); //closing file
end

```

Trace File:

```

2 408ed4
0 10019d94
2 408ed8
1 10019d88
2 408edc

```

Transcript:

```

# Compile of fileops.sv was successful.
vsim -voptargs=+acc work.fileops +filename=tracefile.txt +mode=normal
# vsim -voptargs="+acc" work.fileops "+filename=tracefile.txt" "+mode=normal"
# Start time: 14:13:04 on Nov 05,2022
# ** Note: (vsim-8009) Loading existing optimized design _opt
# Loading sv_std.std
# Loading work.fileops(fast)
# ** Warning: (vsim-PLI-3691) Expected a system task, not a system function '$fscanf'.

```

Time: 0 ns Iteration: 0 Instance: /fileops File: //thoth.cecs.pdx.edu/Home04/bolade/Desktop/FALL 22/MSD 585/Proj/checkpoint1/Final_Project_18/fileops.sv Line: 25

** Warning: (vsim-PLI-3691) Expected a system task, not a system function '\$fscanf'.

Time: 0 ns Iteration: 0 Instance: /fileops File: //thoth.cecs.pdx.edu/Home04/bolade/Desktop/FALL 22/MSD 585/Proj/checkpoint1/Final_Project_18/fileops.sv Line: 26

run -all

Input File_name : tracefile.txt

Operating Mode : normal

File tracefile.txt is opened successfully

command: 2, address: 00408ed4

command: 0, address: 10019d94

command: 2, address: 00408ed8

command: 1, address: 10019d88

command: 2, address: 00408edc

Uploads:

Uploaded all the files and report in GitHub.

main 1 branch 0 tags

Go to file

Add file

Code

About

No description, website, or topics provided.

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Languages

SystemVerilog 100.0%

 bolade47 added checkpoint report

5cb258e 43 seconds ago 6 commits

 README.md	Added Team details in Readme	16 hours ago
 checkpoint1.docx	added checkpoint report	43 seconds ago
 checkpoint1.pdf	added checkpoint report	43 seconds ago
 fileops.sv	added checkpoint report	43 seconds ago
 tracefile.txt	Add files via upload	21 hours ago
 transcript.txt	added checkpoint report	43 seconds ago

README.md

Final_Project_18

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