

MSD 585 FALL 2022

Final Project 18

Checkpoint 1

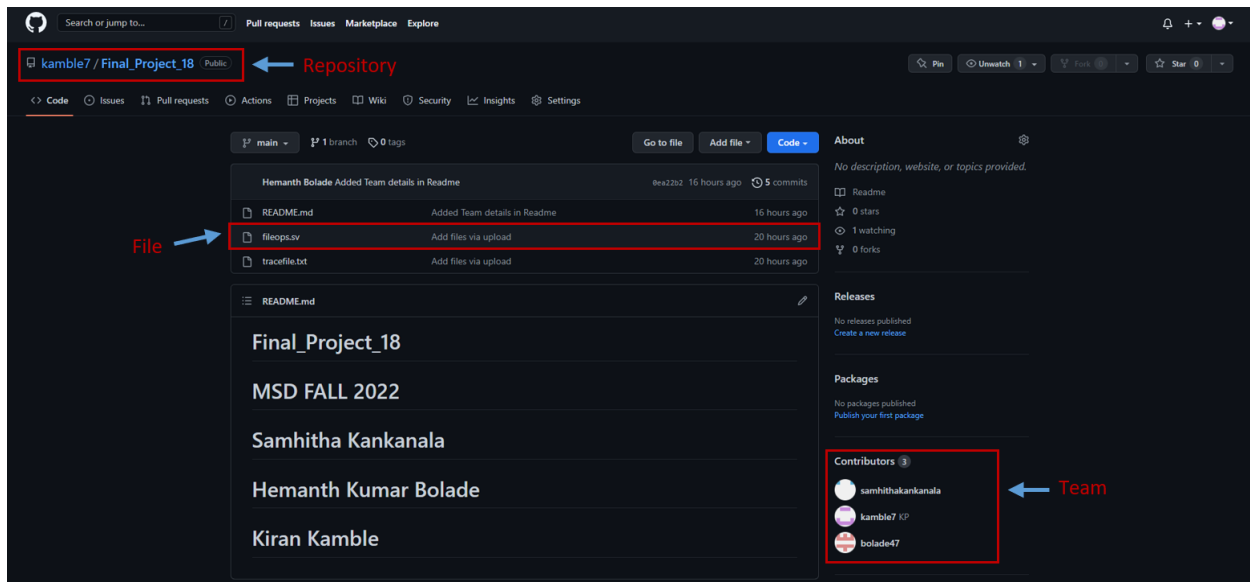
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Teams GITHUB repository:



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.