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```
%Interface with LTSPice .asc files
% component_find = LTmodify( file_name, component, value ) )
%
% This function will search for a specific component in a .asc
simulation file and
% modify its value
```

## Parameters

- @param **file\_name** Name of .asc file to be executed. It must be in the /sim folder of the project
- @param **component** Name of the component to be modified
- @retval **component\_find** True if the component is found in the .asc

## Code

```
function component_find = LTmodify( file_name, component, value )
repo_path='C:\Users\johnc\Dropbox\TFM\source\MIF3\';
sim_path=[repo_path 'sim\'];
S = fileread([sim_path file_name]);
C = strsplit(S, '\n');
i=1;
component_find=false;
spice_component=sprintf('SYMATTR InstName %s', component);
while isempty(strfind(C{i},spice_component))
    i=i+1;
    component_find=true;
end
if component_find
    %disp('Component Found')
    spice_value=sprintf('SYMATTR Value %s', value);
    C{i+1}=spice_value;
    fid = fopen([sim_path file_name], 'w');
    for i=1:1:length(C)
        fprintf(fid, '%s\n', C{i});
    end
    %disp('Component Value replaced')
    fclose(fid);
else
    disp('Component not Found')
end
```

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