

RayTracer>RayTracer.checkIfAtFFRBound (Calls: 23376568, Time: 349.589 s)

Generated 27-Mar-2023 12:55:58 using performance time.
Class method in file /Users/lhess/ffr-photon-simulator-matlab/mask-simulator/RayTracer.m
[Copy to new window for comparing multiple runs](#)

Parents (calling functions)

Lines that take the most time

Line Number	Code	Calls	Total Time (s)	% Time	Time Plot
123	if photon.hasCrossedFFRBound(bound) == true	93505974	154.084	44.1%	<div></div>
122	bound = ffrBounds.(fields{i});	93505974	110.946	31.7%	<div></div>
120	fields = fieldnames(ffrBounds);	23376568	30.530	8.7%	<div></div>
115	ffrBounds = ffr.boundaries.ffrBounds;	23376568	18.281	5.2%	<div></div>
130	end	23374568	13.562	3.9%	<div></div>
All other lines			22.187	6.3%	<div></div>
Totals			349.589	100%	

Children (called functions)

Function Name	Function Type	Calls	Total Time (s)	% Time	Time Plot
Photon>Photon.hasCrossedFFRBound	Class method	93505974	96.307	27.5%	<div></div>
Self time (built-ins, overhead, etc.)			253.282	72.5%	<div></div>
Totals			349.589	100%	

Code Analyzer results

Line Number	Message
113	Input argument 'obj' might be unused, although a later one is used. Consider replacing it by ...

Coverage results

[Show coverage for parent folder](#)

Total lines in function	18
Non-code lines (comments, blank lines)	5
Code lines (lines that can run)	13
Code lines that did run	13
Code lines that did not run	0
Coverage (did run/can run)	100.00 %

Function listing

Time	Calls	Line	
		113	function [hasCrossed, crossedFFRBound] = checkIfAtFFRBound(obj, photon, ffr)
		114	% Check if a photon has crossed an FFR boundary by iterating through the bounds.
18.281	23376568	115	ffrBounds = ffr.boundaries.ffrBounds;
0.520	23376568	116	hasCrossed = false;
0.759	23376568	117	crossedFFRBound = [];
		118	
		119	% Iterate over FFR bounds
30.530	23376568	120	fields = fieldnames(ffrBounds);
1.437	23376568	121	for i = 1:numel(fields)
110.946	93505974	122	bound = ffrBounds.(fields{i});
154.084	93505974	123	if photon.hasCrossedFFRBound(bound) == true

```
124             %Debug.msgWithItem("Crossed FFR bound:", bound, 1);
< 0.001      2000 125             hasCrossed = true;
< 0.001      2000 126             crossedFFRBound = bound;
0.002        2000 127             return;
2.043 93503974 128             end
2.423 93503974 129             end
13.562 23374568 130             end
```

Local functions in this file are not included in this listing.
