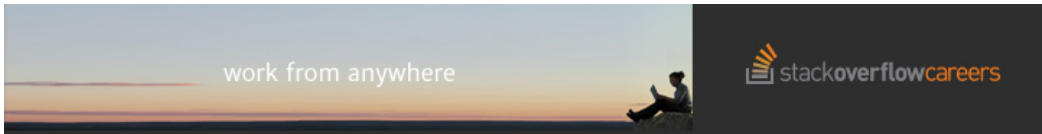


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Difference between Re-entrant and Thread-Safe function



What is the difference between a re-entrant function and a thread safe function?

[c](#)[multithreading](#)

asked Feb 17 '10 at 6:49

[Jay](#)

8,618 6 38 76

stackoverflow.com/questions/2274254/... – [Carlos Gutiérrez](#) Feb 17 '10 at 6:55

very similar if not identical: stackoverflow.com/questions/856823/threadsafe-vs-re-entrant – [Hawkeye Parker](#) Aug 7 '14 at 3:53

2 Answers

Did you check the [wiki article on the subject](#). It explains it pretty well IMO.

answered Feb 17 '10 at 6:52

[Brian Rasmussen](#)

72.6k 19 129 233



Re-entrant means no global state (local only).

Thread safe means it is not possible for 2 (or more) threads to conflict with each other (by writing conflicting values).

answered Feb 17 '10 at 6:54

[Mitch Wheat](#)

180k 21 275 379

but as Brian says, the wiki article explains it well... – [Mitch Wheat](#) Feb 17 '10 at 6:55