

Quality Report Project8_PhpUnit

Introduction :

To analyze and quantify the code quality, Codacy and BlackFire have been used.

Codacy is a good free plan code analyst program who will follow the quality of the code during the development.

BlackFire is the main performance code analyst program for Symfony. It will show what part of the code have less performances so that we can improve this specific part to gain more performances.

Codacy :

Codacy report : https://app.codacy.com/project/Beskargam/Project8_PhpUnit/dashboard?bid=11981333

Although there are some issues, all these issues are not important because there a specific for the good functions of Symfony.

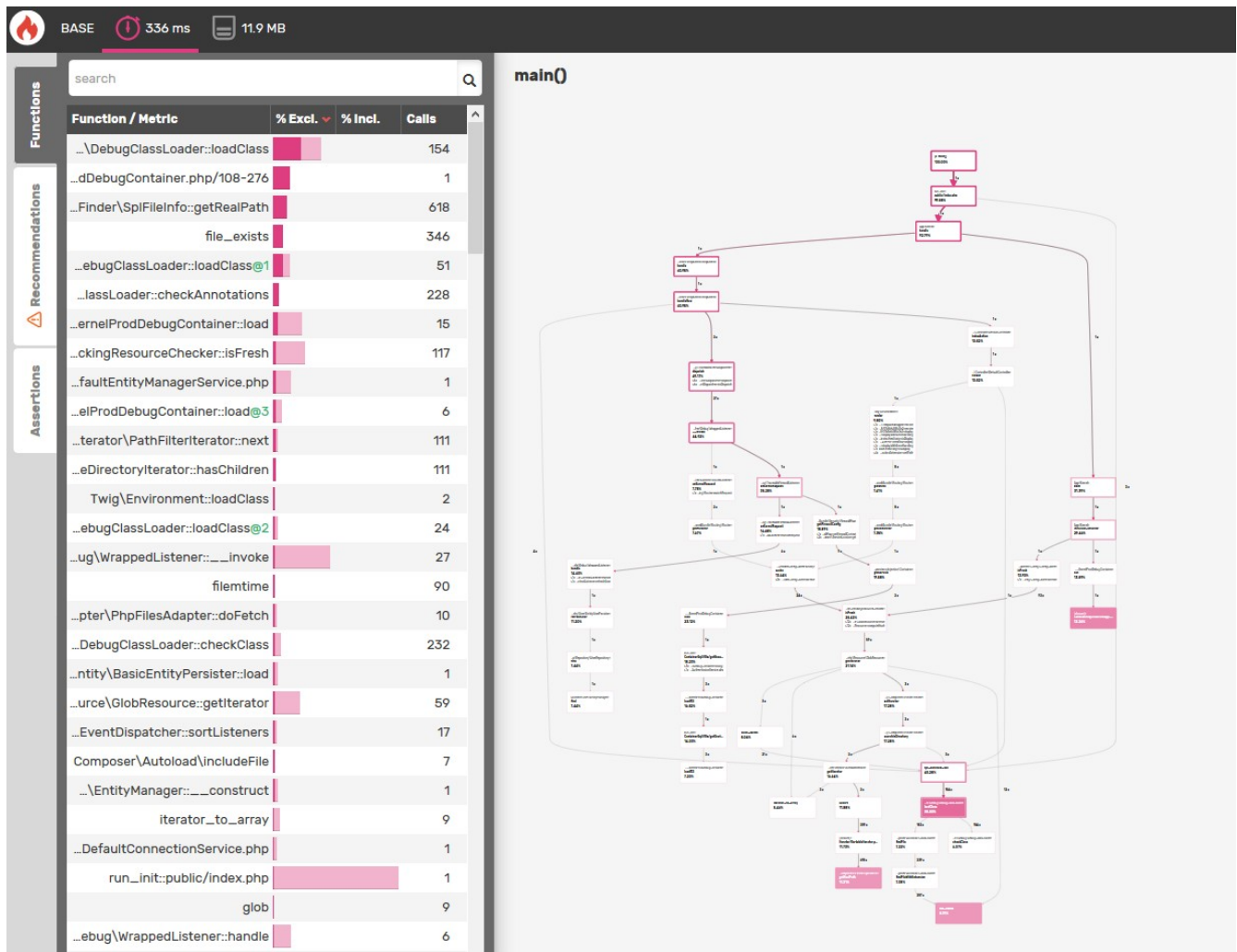
BlackFire :

Here we can do more.

Blackfire is a powerfull program that will analyze the project and show use some part where we can improve. Let's see one, the composer improvement.

Composer is the dependency injection manager for symfony. He's powerfull but a little bit slow.

Just check :



As we can see the classLoader is the slowest thing in the project. This function is a Composer function.

This function call the all the classes in the project one by one.

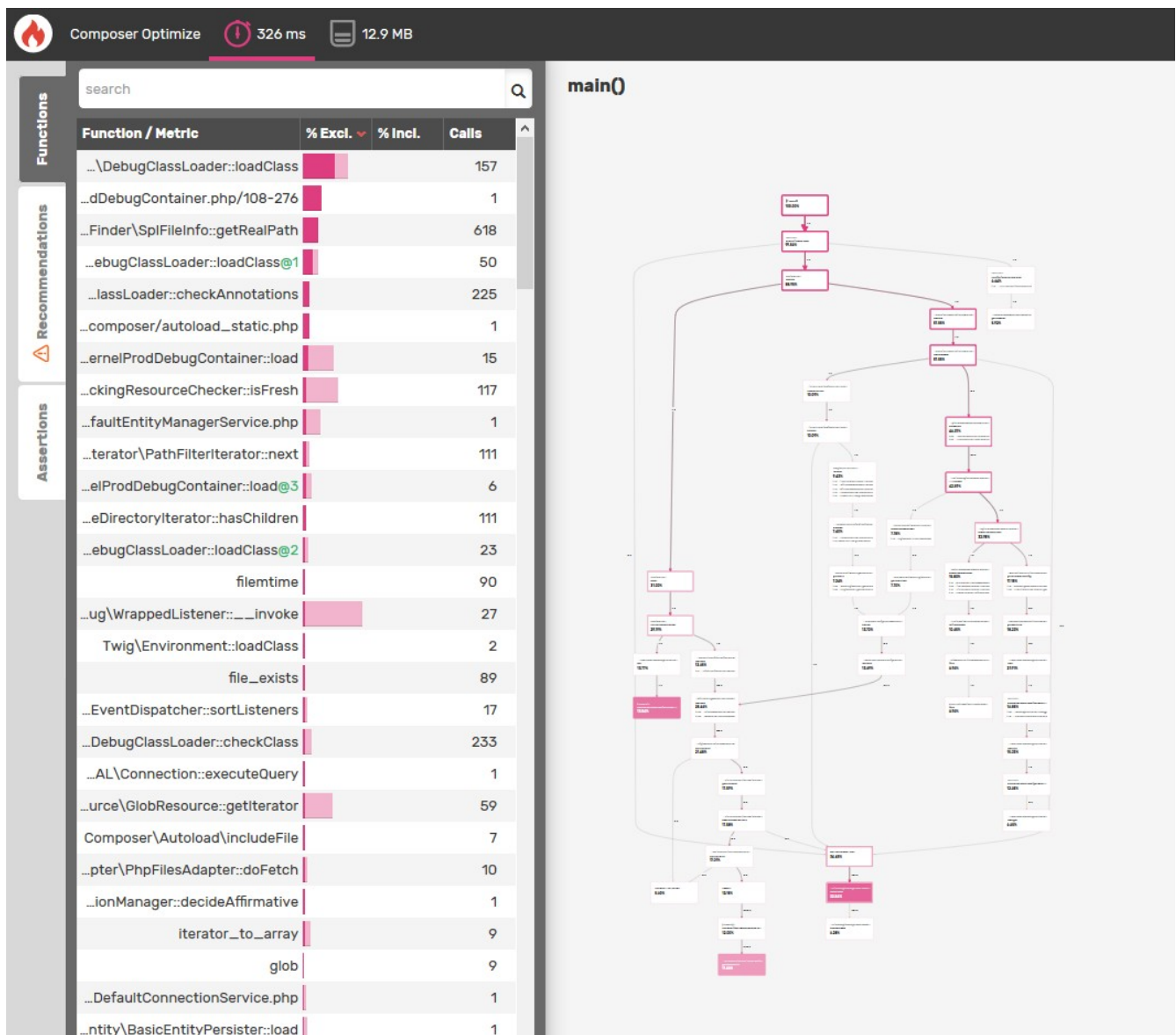
We can improve this loads by creating a file where all the classes are registered, so that composer know exactly where each class are and in this case get faster. let's do it.

We can do this with a nice command from composer :

```
composer dump-autoload --optimize --no-dev --classmap-authoritative
```

Nice. Let see what improvements comes with this command.

Launch another analysis with blackfire :



We can see some improvements. We gain 10 ms at page load.

Maybe we can see it better like that. Compare the analysis :

My Profiles
Environments
Settings
Organizations

Search...
Public only
Filter

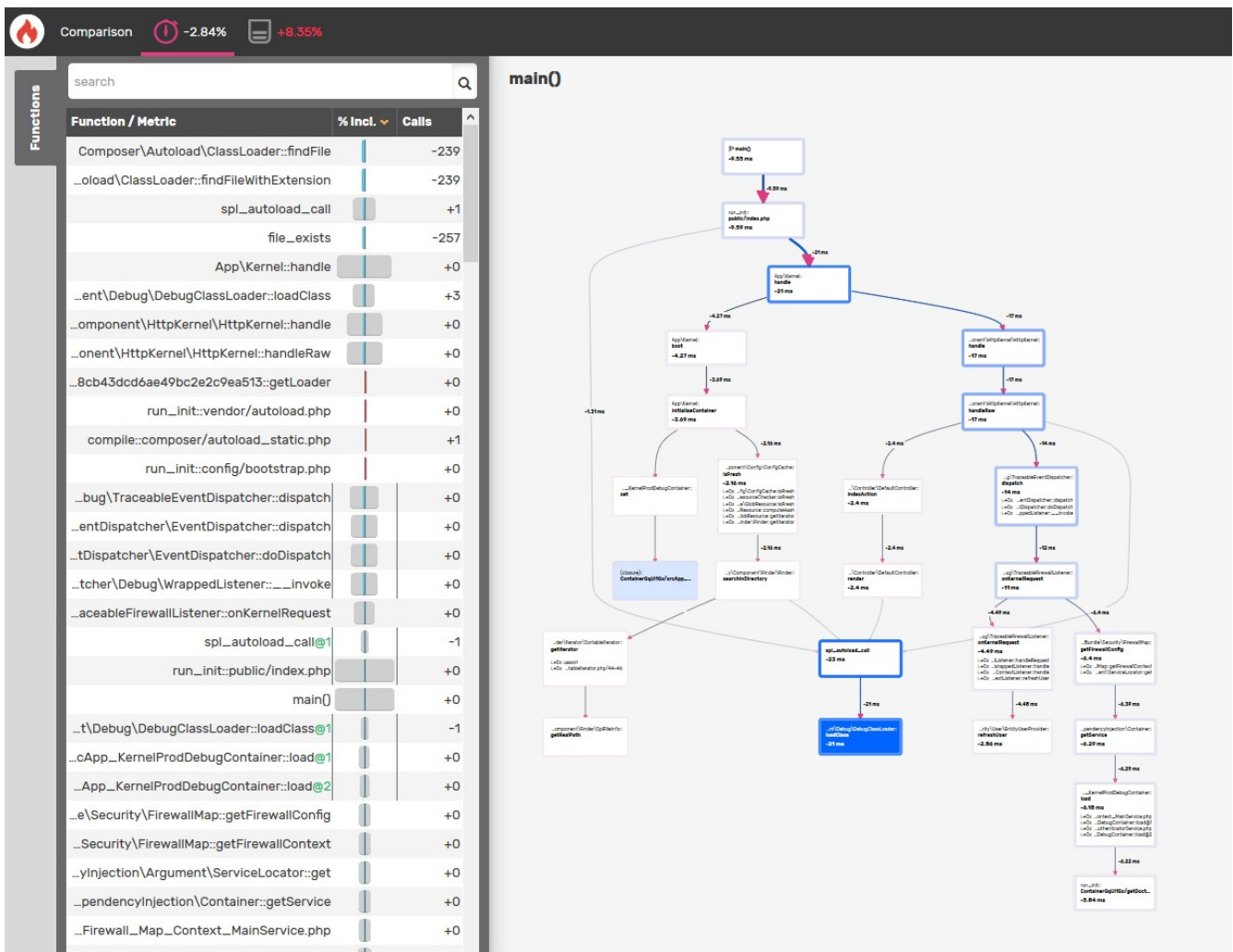
200 GET http://localhost:8000/Composer Optimize
Created 2 hours ago by CORAL
326 ms 12.9 MB 0 μs / 0 rq 0 μs / 0 rq

200 GET http://localhost:8000/BASE
Created 3 hours ago by CORAL
336 ms 11.9 MB 0 μs / 0 rq 0 μs / 0 rq

Compare

2 Profiles

And let see the changes :



No worries. Optimization is in fact that way, get faster but loss memory.

On internet, we need fast websites and that what we have done. Memory in hardware cost low and that is a loss that we can accept for the business project.

Other :

We can improve better performances without programs who show us what to improve.

Just like Paginate the tasks. So the tasks list page have not 100, 200 tasks to load but 10 and paginate the rest.