

# **Comparação entre frameworks**

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# Ambiente de testes

- **Intel Core Duo 1.7 Ghz**
- **1 GB RAM**
- **HD 5400 RPM**
- **Ubuntu 7.04**
- **Kernel 2.6.20-16 SMP**
- **Apache 2.2.3-3.2build1**
- **MySQL 5.0.38**
- **CakePHP versão 1.1.15.5144**
- **Symfony versão 1.0.2**
- **Zend versão 1.0.0**
- **Dados: 1 registro na tabela Imobiliarias e 10 registros na tabela Imoveis**

# Descrição dos testes

**Xdebug – realizado profiling das aplicações. Analisado usando o kcachegrind para identificar número de arquivos abertos e tempo de carga**

**Apache ab – utilizado para analisar performance, especialmente o número de requisições por segundo. Foram realizados 5 execuções e feito uma média para utilizar nas comparações**

# Script usado nos testes

```
•#!/bin/bash
•export
URL_CAKE="http://localhost/workshop/cake/webimoveis/imobiliarias/index/1"
•export
URL_SYMFONY="http://localhost/workshop/sf_imoveis/web/bagual.php"
•export URL_ZEND="http://localhost/workshop/zend/"
•#cakephp
•/etc/init.d/apache2 restart
•for i in 1 2 3 4 5; do
•    ab -c10 -t 60 $URL_CAKE > /tmp/result_cake_$i
•done
•#symfony
•/etc/init.d/apache2 restart
•for i in 1 2 3 4 5; do
•    ab -c10 -t 60 $URL_SYMFONY > /tmp/result_symfony_$i
•done
•#zend
•/etc/init.d/apache2 restart
•for i in 1 2 3 4 5; do
•    ab -c10 -t 60 $URL_ZEND > /tmp/result_zend_$i
•done
```

# CakePHP

cake [/home/www/bsb/webimoveis/webroot/index.php] - KCachegrind

File View Go Settings Help

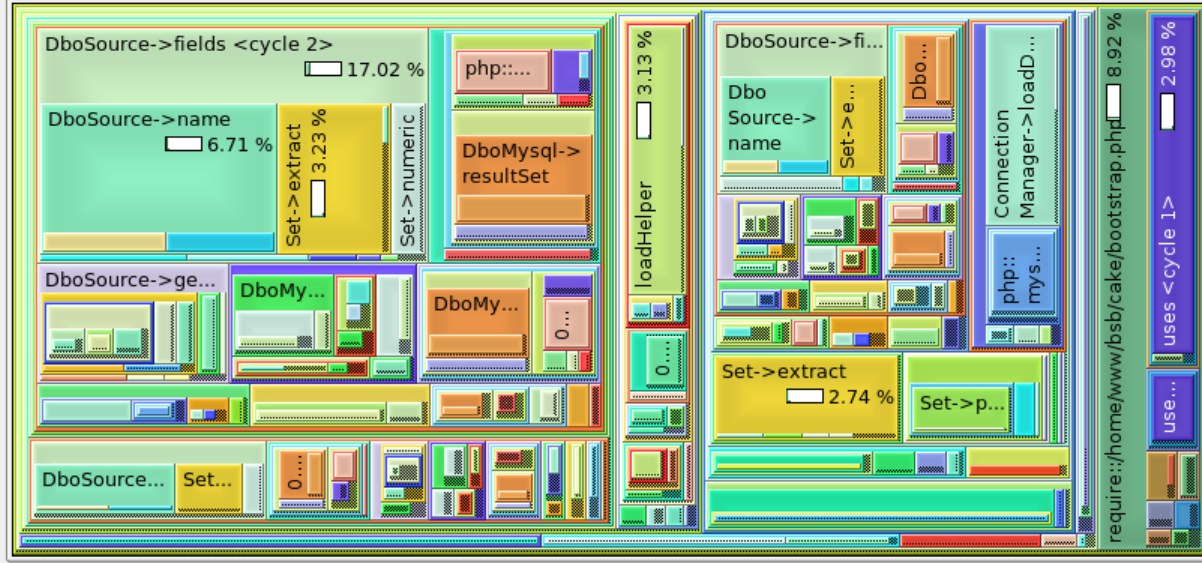
Time

Search:  (No Grouping)

Incl.	Self	Called	Function	Location
101.85	0.39	(0)	{main}	index.ph
92.46	0.17	1	Dispatcher->dispatch	dispatch
62.61	15.75	7	<cycle 2>	(unknow
57.16	0.05	1	Dispatcher->_invoke	dispatch
50.14	0.01	1	php::call_user_func_array	php:inte
50.13	0.04	1	ImobiliariasController->in...	imobiliari
41.63	0.01	1	php::Imobiliaria->findAllIB...	php:inte
41.62	0.03	1	Model->_call	model_p
31.26	0.06	1	Controller->constructClas...	controlle
28.22	1.21	1	<cycle 3>	(unknow
26.37	0.47	5	Model->_construct <cycl...	model_p
25.63	8.67	45	DboSource->fields <cycle...	dbo_sou
16.36	1.54	40	DboSource->fetchAll	dbo_sou
14.75	0.31	5	Model->setSource	model_p
11.33	1.41	6	DboSource->queryAssoci...	dbo_sou
11.26	9.60	411	DboSource->name	dbo_sou
9.36	2.12	95	DboSource->fetchRow	dbo_sou
8.92	4.35	1	require::/home/www/bsb/c...	bootstra
7.84	7.14	194	Set->extract	set.php
6.92	0.18	1	Controller->render	controlle
6.79	1.25	68	ConnectionManager->get...	connecti
6.47	0.08	1	View->render	view.php
6.35	1.79	12	DboSource->generateAss...	dbo_sou
6.21	0.89	5	DboMysql->describe <cyc...	dbo_mys
6.14	4.36	95	DboMysql->resultSet	dbo_mys
6.14	0.41	2	View->_render	view.php
6.11	0.20	6	DboSource->query <cycle...	dbo_sou
5.57	0.09	5	Model->setDataSource	model_p

{main}

Types Callers All Callers Source Callee Map



Time	Count	Callee
92.46	1	Dispatcher->dispatch (dispatcher.php)
8.92	1	require::/home/www/bsb/cake/bootstrap.php (bootstrap.php)
0.02	8	php::define (php:internal)
0.02	1	getMicrotime (basics.php)
0.01	7	php::defined (php:internal)
0.01	1	Configure::read (configure.php)
0.01	2	php::basename (php:internal)
0.01	1	Dispatcher->_construct (dispatcher.php)

Caller Map Parts Call Graph Callees All Callees Assembler

# CakePHP

<b>Arquivos abertos</b>	<b>5</b>
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<b>Tempo de execução (ms)</b>	<b>289,62</b>
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<b>Requests per second</b>	Exec1	Exec2	Exec3	Exec4	Exec5	<b>Média</b>
	21,78	21,93	22,01	21,98	21,95	<b>21,93</b>

# Symfony

symfony [/home/www/workshop/sf\_imoveis/web/bagual.php] - KCachegrind

File View Go Settings Help

Time

Search: (No Grouping)

Incl.	Self	Called	Function	Location
155.77	0.61	2	<cycle 2>	(unknown)
100.98	0.18	(0)	{main}	bagual.p
81.65	0.08	1	sfFrontWebController->dis...	config_co
81.53	0.42	1	sfController->forward	config_co
78.59	0.15	5	sfFilterChain->execute <c...	config_co
78.42	0.13	1	sfCommonFilter->execut...	config_co
76.86	0.32	1	sfExecutionFilter->execut...	config_co
44.80	0.22	1	sfPHPView->render	config_co
44.32	0.50	2	sfPHPView->renderFile	config_co
38.84	1.15	1	require::/home/www/works...	indexSuc
29.31	0.06	1	sfActions->execute	config_co
29.19	0.12	1	principalActions->execut...	actions.c
22.22	15.75	25	<cycle 1>	(unknown)
21.85	1.89	10	Baselmovels->getFotoss	Baselmo
18.67	14.24	24	sfCore::splAutoload <cycl...	sfCore.cl
17.59	0.32	10	BaseFotosPeer::doSelect	BaseFote
14.12	0.62	1	require_once::/home/www/...	config.ph
14.04	1.58	12	BasePeer::doSelect	BasePee
13.46	0.87	1	sfCore::bootstrap	sfCore.cl
12.09	0.47	1	sfCore::callBootstrap	sfCore.cl
12.07	0.94	20	link_to	UrlHelpe
11.60	0.92	1	require::/home/www/works...	config_b
11.15	0.42	10	BaseFotosPeer::doSelectRS	BaseFote
10.49	0.45	22	url_for	UrlHelpe
10.06	0.03	1	BaselmobiliariasPeer::doS...	Baselmo
10.04	2.89	22	sfWebController->genUrl	config_co
7.94	0.06	1	BaselmobiliariasPeer::doS...	Baselmo
7.76	7.48	2	sfConfigCache->import	sfConfig

{main}

Types Callers All Callers Source Callee Map

Time Count Callee

81.65	1	sfFrontWebController->dispatch (config_core_compile.yml.php)
14.12	1	require_once::/home/www/workshop/sf_imoveis/apps/bagual/config/config.php (config.php)
5.01	1	sfContext::getInstance (config_core_compile.yml.php)
0.01	4	php::define (php:internal)
0.01	1	php::realpath (php:internal)
0.01	1	php::dirname (php:internal)
0.00	1	sfContext->getController (config_core_compile.yml.php)

Caller Map Parts Call Graph Callees All Callees Assembler

# Symfony

<b>Arquivos abertos</b>	<b>4</b>
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<b>Tempo de execução (ms)</b>	<b>221,12</b>
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<b>Requests per second</b>	Exec1	Exec2	Exec3	Exec4	Exec5	<b>Média</b>
	18,21	18,39	18,35	18,36	18,26	<b>18,31</b>



# Zend

zend [/home/www/workshop/zend/index.php] - KCacheGrind

File View Go Settings Help



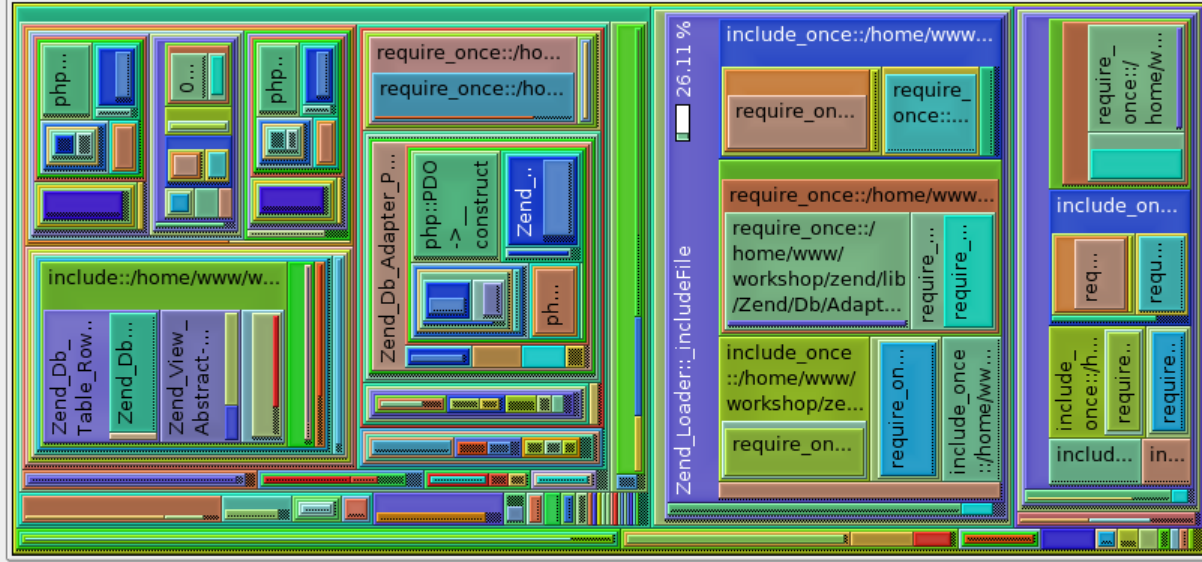
Time

Search: (No Grouping)

Incl.	Self	Called	Function	Location
100.83	1.62	(0)	{main}	index.ph
50.93	2.22	1	Zend_Controller_Front->di...	Front.ph
48.41	2.31	13	Zend_Loader::loadClass	Loader.p
46.46	1.07	12	Zend_Loader::loadFile	Loader.p
44.24	7.52	12	Zend_Loader::_includeFile	Loader.p
42.82	0.24	1	Zend_Controller_Dispatch...	Standar
30.74	0.25	9	_autoload	index.ph
23.32	0.10	1	Zend_Controller_Action->...	Action.p
17.52	0.08	1	Zend_Controller_Action->...	Action.p
15.94	0.19	1	IndexController->init	IndexCo
15.20	0.22	1	Zend_Db::factory	Db.php
13.52	1.96	1	include_once::/home/www/...	Mysql.ph
12.62	0.13	4	Zend_Db_Adapter_Pdo_Ab...	Abstract
12.48	0.37	4	Zend_Db_Adapter_Absrac...	Abstract
11.60	0.03	1	Zend_Controller_Action_H...	HelperBr
11.60	0.09	1	IndexController->indexAc...	IndexCo
11.58	0.10	1	Zend_Controller_Action_H...	ViewRen
11.54	2.92	1	require_once::/home/www/...	Abstract
11.45	0.05	1	Zend_Controller_Action_H...	ViewRen
10.94	0.08	1	Zend_Controller_Action_H...	ViewRen
10.78	4.00	1	include_once::/home/www/...	Front.ph
10.73	3.71	1	<cycle 1>	(unknow
10.06	0.07	2	Zend_Db_Table_Abstract-...	Abstract
9.99	0.11	2	Zend_Db_Table_Abstract-...	Abstract
9.72	0.22	2	Zend_Db_Table_Abstract-...	Abstract
9.50	1.72	2	Zend_Db_Adapter_Pdo_My...	Mysql.ph
9.30	2.69	1	include::/home/www/works...	index.ph
7.77	0.23	2	Zend_Db_Table_Abstract-...	Abstract

{main}

Types Callers All Callers Source Callee Map



Time	Count	Callee
50.93	1	Zend_Controller_Front->dispatch (Front.php)
29.18	6	_autoload (index.php)
15.20	1	Zend_Db::factory (Db.php)
2.00	1	Zend_Controller_Front->setControllerDirectory (Front.php)
1.11	1	Zend_Config_Ini->_construct (Ini.php)
0.27	1	Zend_Registry::getInstance (Registry.php)
0.18	1	php::setlocale (php:internal)
0.07	2	Zend_Config->_get (Config.php)

Caller Map Parts Call Graph Callees All Callees Assembler

# Zend

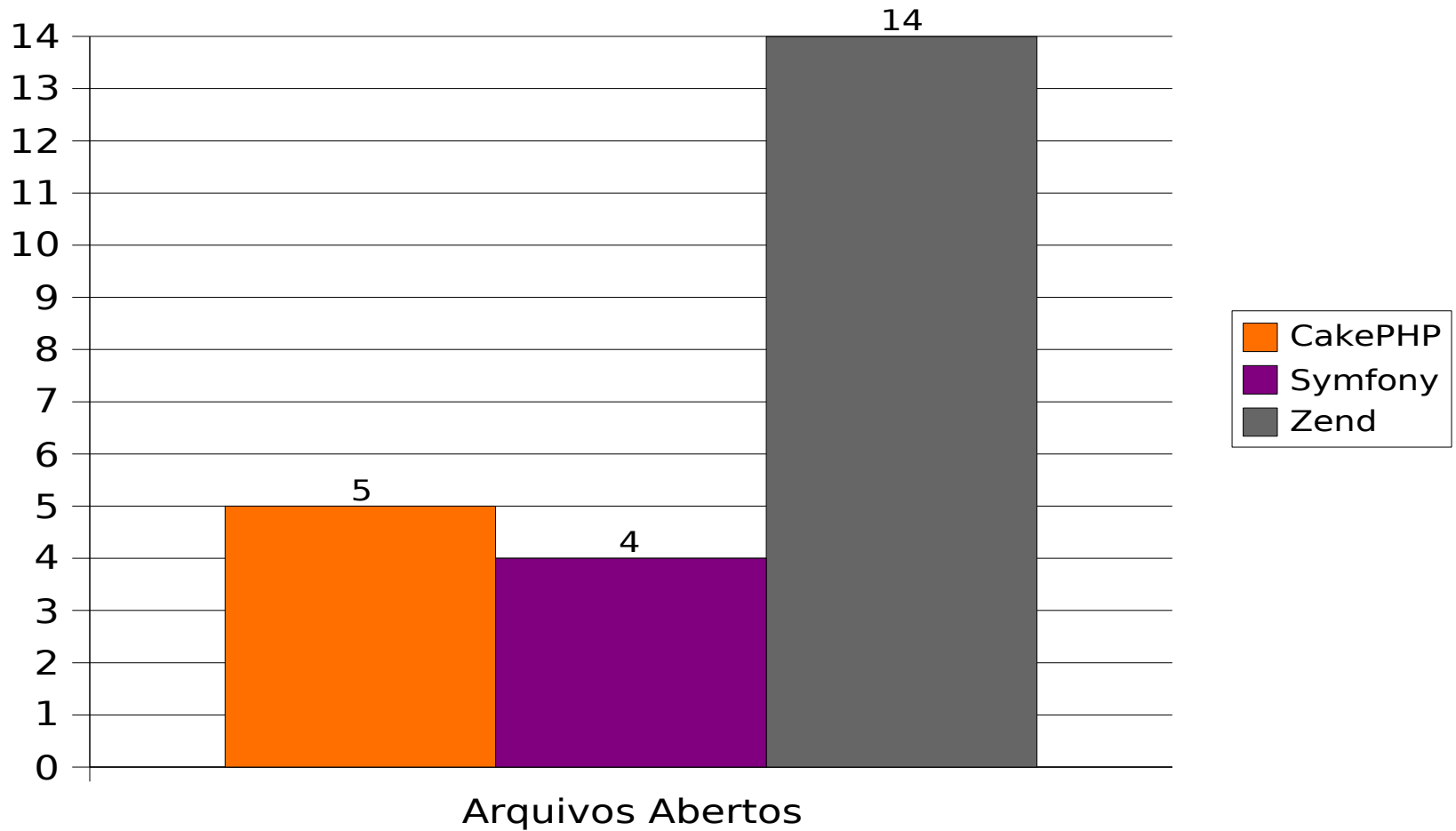
<b>Arquivos abertos</b>	<b>14</b>
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<b>Tempo de execução (ms)</b>	<b>131,57</b>
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<b>Requests per second</b>	Exec1	Exec2	Exec3	Exec4	Exec5	<b>Média</b>
	30,82	29,93	29,31	29,61	29,29	<b>29,79</b>

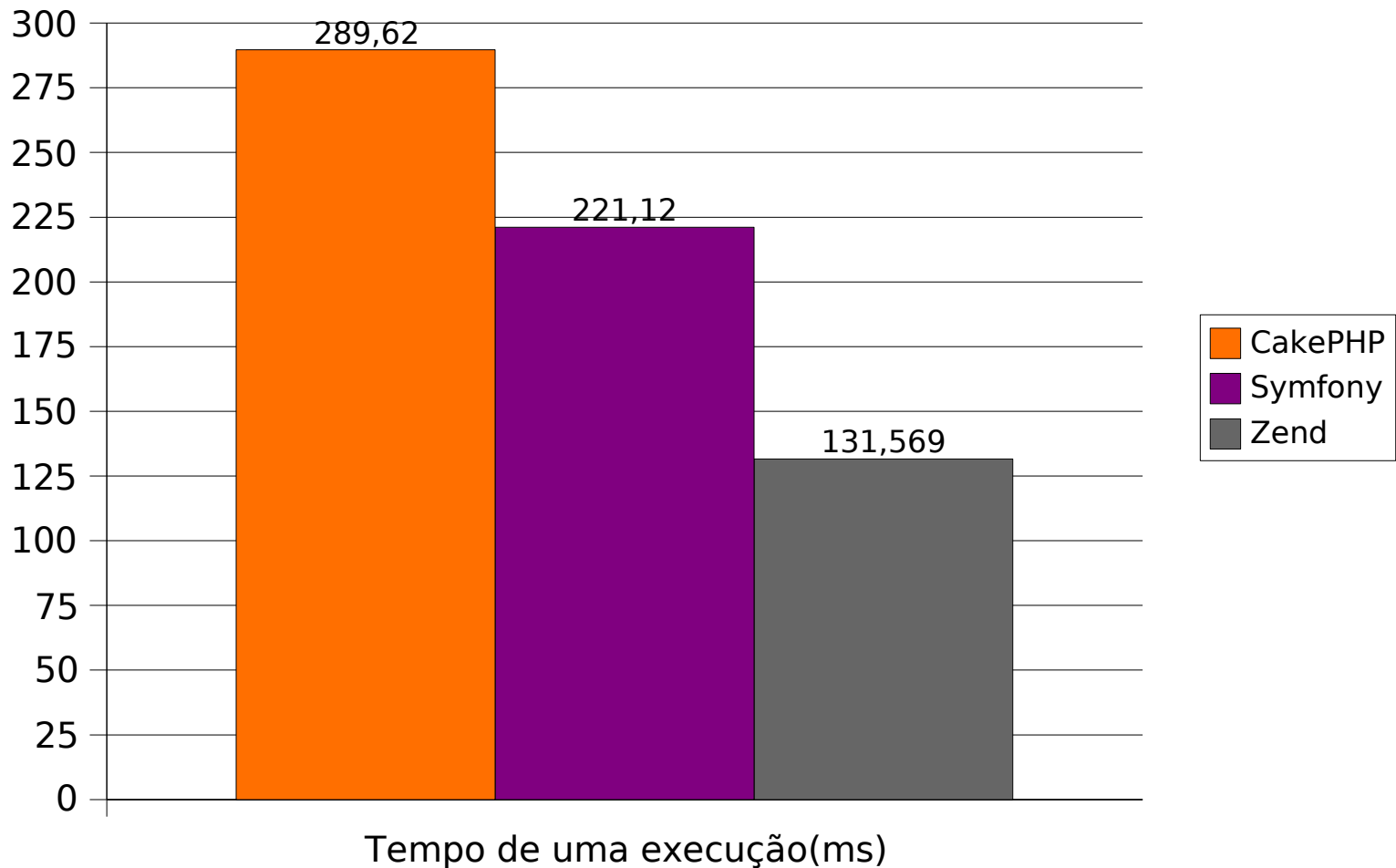
# Comparação

## Arquivos carregados



# Comparação

## Tempo de execução (ms)



# Comparação

## Requisições por segundo

