

## Core - Epic # 55065

Epic # 55070 (Accepted): Workpackages

<b>Status:</b>	New	<b>Priority:</b>	Could have
<b>Author:</b>	Ingo Schmitt	<b>Category:</b>	Performance
<b>Created:</b>	2014-01-16	<b>Assigned To:</b>	
<b>Updated:</b>	2015-07-22	<b>Due date:</b>	2014-07-09
<b>Sprint Focus:</b>			
<b>Subject:</b>	WP: Overall System Performance (Backend and Frontend)		
<b>Description</b>			
<p>TYPO3 6.2 LTS will be used in enterprise environments as well as on budget hosting-environments. These systems will have a lot of content or many requests or even both.</p> <p>In order to provide the necessary technical basis for those use cases, the overall performance of TYPO3 CMS must be increased. Also, the main performance of TYPO3 will be reviewed and optimized to get a faster system.</p>			
<b>Subtasks:</b>			
Story # 55071: review current caching types and differentiate these types			Closed
Story # 55072: implement compile time cache			Closed
Story # 55073: review autoloader and language cache			Closed
Task # 54990: ClassLoader cache ist too slow, no matter which CF Backend is used			Resolved
Task # 54984: "Clear all caches" makes the site unavailable for several seconds			Closed
Story # 55074: implement configuration cache			Closed
Story # 55075: review TCA cache and increase performance and scalability			Closed
Story # 55076: review frontend rendering cache and rootline cache			Closed
Task # 39295: Wrong expires date in cf_cache_pagesection			Resolved
Story # 55077: review bootstrap for ajax-calls and streamline process			Resolved
Story # 55078: Optimize PHP code performance in TYPO3 methods			Closed
Task # 54777: Use PHP native htmlspecialchars_decode()			Resolved
Task # 54085: Replace all strcmp() calls with ===			Resolved
Task # 54091: Use === operator instead of strlen() to check for zero length strings			Resolved
Task # 54265: Use (int) instead of intval() or (integer)			Resolved
Task # 54560: Replace JavaScriptEncoder with json_encode()			Resolved
Task # 55198: Replace trimExplode + foreach with explode + trim within foreach			Resolved
Task # 54525: Optimize file- and path functions in GeneralUtility			Resolved
Task # 55122: Cleanup and optimize methods in ExtensionManagementUtility			Resolved
Task # 54734: Optimize ext_tables and ext_localconf cache files			Closed
Bug # 52949: Speed decrease since 4.5			Resolved
Task # 53029: Improve performance of the class loader			Resolved
Task # 53744: Change ClassLoader cache from proxy require files to standard cache backends			Resolved
Task # 53747: Change TCA cache from php code to serialized array			Resolved
Feature # 52642: CF: Implement Simple db, apc & memcached backend			Accepted
Task # 53467: Improve flush by tag performance for the file cache backend			Under Review
Bug # 53556: classLoader->loadClass calls requireOnce twice per class			Closed
Bug # 53918: t3skin calls addIconSprite for each language			Resolved
Bug # 53962: Class loader does not cache non existing classes			Resolved
Bug # 53702: FAL fetches storages twice on every BE request			Resolved
Task # 54251: GeneralUtility::array_merge_recursive_overrule has bad performance			Resolved
Bug # 53862: isValidUrl idna converts whole URI instead of domain only			Resolved
Bug # 52125: Saving records takes ages to complete			Resolved
Bug # 52235: Timeout when copying pages recursively due to cache-clearing overload			Resolved
Bug # 52374: Editing a sys_filemount is very slow			New

Bug # 53598: Select/Delete fe_sessions twice per request	Resolved
Bug # 54982: Performance of eID-scripts in TYPO3 6.2	Resolved
Bug # 55022: PackageManager Cache is invalid if typo3 dir has symlinks	Resolved
Bug # 56307: Findings from Bootstrap/PackageManager/ClassLoader analyses	Accepted
Bug # 56308: ClassLoaderCache superfluous	Closed
Bug # 56310: The PackageManager checks every boot if all required packages are active	Resolved
Bug # 56311: PackageFactory does not need to be initialized on regular requests	Resolved
Bug # 56312: Dependency Resolver does not need to be initialized	Accepted
Bug # 56313: Cache Identifiers shorten the MD5 hash	Resolved
Bug # 56314: setCacheHashOptions from Bootstrap not relevant for EID	New
Bug # 56315: Optimize TimeTracking init in eID Case	Rejected
Bug # 56316: inline BEUserAuth::getCookieName	Resolved
Bug # 56317: Cache Local and Default Configuration to prevent duplicate File Access	New
Bug # 56318: Check whether the ConfigurationManager can be omitted/reduced for the purpose...	Closed
Bug # 56319: Merge Cache/Cache and CacheFactory into CacheManager	Resolved
Bug # 56320: Check emptying the Flow Classes as far as possible	Rejected
Bug # 56322: GetAliasesForClass not used	Closed
Bug # 56323: cache_classes should cluster by Package instead of Class	Closed
Bug # 56324: Class Loader should not try to runtime resolve class-paths	Closed
Bug # 56325: Move "finalClassNameCache" from GeneralUtility to ClassLoader	Resolved
Bug # 56326: Evaluate and Merge ClassAliasMap into Classloader class	Rejected
Bug # 56328: Extract complex "class loader cache building" code into ClassLoadingInform...	Closed
Bug # 56330: Add all classes which are needed anyhow within the minimal Bootstrap to th...	Rejected
Bug # 56331: Evaluate if we can profit from concatenate all baseRequiredClasses into on...	Resolved
Bug # 56333: MicroOptimize ClassLoader	Closed
Bug # 56334: Prevent inclusion of LogLevel due to ConfigDefault referral	New
Bug # 56335: Prevent Inclusion of ResourceStorage from Bootstrap	Resolved
Bug # 56336: Prevent Inclusion of MediaWizardProvider* in Base Bootstrap	Resolved
Bug # 56337: Remove manual array calculation in Locales and put the arrays to the class...	Needs Feedback
Bug # 56340: Remove the VariableFrontend from requiredBaseClasses	Closed
Task # 56341: Evaluate if it is really reasonable to have TYPO3\CMS\Core\Compatibility\...	Closed
Task # 56538: Cache the \$GLOBALS['TYPO3_LOADED_EXT'] as an array	Resolved
Bug # 56933: Cached class loader misses are not considered on retrieval	Resolved
Task # 56934: Move information in Package classes into composer files	Resolved
Story # 57862: Add possibility to make all TCA additions cached	Resolved
Task # 57863: Introduce a signal in ExtensionManagementUtility::loadBaseTca	Resolved
Task # 57881: Make category TCA changes cacheable	Resolved
Task # 57942: Provide API to add cached TCA changes	Resolved
Bug # 23069: Bottleneck in t3lib_tcemain	Resolved
Task # 55179: Optimize SQL Performance	Closed
Bug # 55180: Increase Determination of siteroot page	Resolved
Bug # 55181: Speedup domain redirection lookup	Resolved
Bug # 55182: Speedup selection of storage	Closed
Bug # 55184: Filling the entries from sys_registry does not use an index	Closed
Feature # 27372: Execute native prepared queries in t3lib_DB	Resolved
Bug # 24960: Rewrite t3lib_loadModules::getRelativePath()	Rejected
Task # 55578: Documentation	Closed
Epic # 55656: Optimize overall Extbase performance	Accepted
Task # 55654: Extbase: Optimize ClassInfoFactory with the ClassInfoCache	Accepted
Story # 55168: Optimize Extbase generic persistence	Accepted
Task # 55167: Extbase: avoid parseQuery() / buildQuery() to be called multiple times	Resolved
Task # 55661: Add functional tests for extbase persistence	Resolved
Task # 57173: Use of cf_extbase_typo3dbbackend_queries results in fatal	Resolved

Task # 57130: Extbase Queries with NULL comparison don't work anymore	<b>Resolved</b>
Task # 57104: Regression: Query building fails for LazyObjectStorage	<b>Resolved</b>
Task # 57263: Typo3DbQueryParser does not handle LowerCaseInterface correctly	<b>Resolved</b>
Task # 57338: Make Typo3DbQueryParser Singleton	<b>Resolved</b>
Task # 55169: Extbase: fetch child objects in one query	<b>Under Review</b>
Feature # 60460: Refactor lazyLoading handling in extbase	<b>Accepted</b>
Task # 53514: Extbase: DataMapper causes redundant queries	<b>Resolved</b>
Task # 55360: Extbase: use preparedStatement in generic persistence	<b>Resolved</b>
Task # 57067: Follow-Up re-use preparedStatement object	<b>Accepted</b>
Task # 57254: Fix usage of own prepared statement object in \$query->statement	<b>Resolved</b>
Task # 56979: Add setting for DataMapper to enable preparedStatements	<b>New</b>
Task # 59917: User Repositories in internal persistence logic	<b>Under Review</b>
Story # 54567: Extbase: overall performance of backend modules	<b>Closed</b>
Task # 54571: Extbase: Avoid TS parsing in BE if not necessary	<b>Closed</b>
Task # 55653: belong: cache the beusers username	<b>Resolved</b>
Feature # 48960: Extbase: Backport lazy dependency injection	<b>New</b>
Story # 55079: review Extbase caching for frontend and backend	<b>New</b>
Task # 55044: Make Extbase use cache group "pages"	<b>Resolved</b>
Task # 54701: Cache global TypoScript template in backend	<b>New</b>
Task # 54813: BackendConfigurationManager figures out wrong pid	<b>New</b>
Task # 57594: Optimize ReflectionService Cache handling	<b>Accepted</b>
Task # 54605: Inject annotations should not be used by core (~5% performance)	<b>Under Review</b>
Task # 56108: Cleanup \TYPO3\CMS\Recordlist\RecordList\DatabaseRecordList and friends	<b>Closed</b>
Task # 56109: Cleanup \TYPO3\CMS\Lang\LanguageService	<b>Resolved</b>
Task # 56110: IconUtility::getSpriteIcon() needs a cache	<b>Resolved</b>
Bug # 58357: Superfluous SQL queries on copying records	<b>Resolved</b>
Bug # 59587: Performance killer: APC cache backend, wrong assignment of cache tags	<b>Resolved</b>
<b>Related issues:</b>	
related to Core - Feature # 17085: HTTP GET 'If-Modified-Since' ignored	<b>Under Review 2007-03-06</b>
related to Core - Bug # 56354: Speed up updating the extension list	<b>Resolved 2014-02-26</b>

## History

### #1 - 2014-01-16 16:19 - Ingo Schmitt

- Estimated time set to 400.00
- Parent task set to #55070