zinit.zsh(1)

NAME

zinit.zsh - a shell script

SYNOPSIS

Documentation automatically generated with `zshelldoc'

FUNCTIONS

```
+zi::deploy-message
+zi::message
+zi::prehelp-usage-message
-zinit_scheduler_add_sh
:zi::reload-and-run
:zi::tmp-subst-alias
:zi::tmp-subst-autoload
:zi::tmp-subst-bindkey
:zi::tmp-subst-compdef
:zi::tmp-subst-zle
:zi::tmp-subst-zstyle
@autoload
@zi::register-annex
@zi::register-hook
@zi::substitute
@zsh-plugin-run-on-unload
@zsh-plugin-run-on-update
_zi::add-fpath
_zi::add-report
_zi::any-to-pid
_zi::any-to-user-plugin
_zi::compdef-clear
_zi::compdef-replay
_zi::diff
_zi::diff-env
_zi::diff-functions
_zi::diff-options
_zi::diff-parameter
_zi::find-other-matches
_zi::formatter-auto
_zi::formatter-bar
_zi::formatter-bar-util
_zi::formatter-dbg
_zi::formatter-pid
```

```
  _zi::formatter-th-bar
  _zi::formatter-url
  _zi::get-mtime-into
  _zi::get-object-path
  _zi::ice
  _zi::load
  _zi::load-ices
  _zi::load-object
  _zi::load-plugin
  _zi::load-snippet
  _zi::main-message-formatter
  _zi::pack-ice
  _zi::parse-opts
  _zi::prepare-home
  _zi::register-plugin
  _zi::run
  _zi::run-task
  _zi::set-m-func
  _zi::setup-params
  _zi::submit-turbo
  _zi::tmp-subst-off
  _zi::tmp-subst-on
  _zi::util-shands-path
  pmodload
  zicdclear
  zicdreplay
  zicompdef
  zicompinit
  zinit
  zpcdclear
  zpcdreplay
  zpcompdef
  zpcompinit
  zplugin
AUTOLOAD add-zsh-hook
AUTOLOAD compinit
AUTOLOAD is-at-least
PRECMD-HOOK @zi::scheduler
```

DETAILS

Script Body

Has 245 line(s). Calls functions:

```
Script-Body
|-- +zi::message
|-- @zi::register-hook
```

```
|-- _zi::get-mtime-into
|-- _zi::prepare-home
|    |-- zinit-autoload.zsh/_zi::clear-completions
|    `-- zinit-install.zsh/_zi::compinit
|-- add-zsh-hook
|-- is-at-least
|-- zinit
|    |-- +zi::message
|    |-- +zi::prehelp-usage-message
|    |    `-- +zi::message
|    |-- _zi::add-fpath
|    |    `-- _zi::any-to-user-plugin
|    |-- _zi::compdef-clear
|    |    `-- +zi::message
|    |-- _zi::compdef-replay
|    |    `-- +zi::message
|    |-- _zi::get-object-path
|    |    `-- _zi::any-to-user-plugin
|    |-- _zi::ice
|    |-- _zi::load-ices
|    |    `-- _zi::get-object-path
|    |         `-- _zi::any-to-user-plugin
|    |-- _zi::load-object
|    |    |-- _zi::load
|    |    |    |-- +zi::deploy-message
|    |    |    |-- _zi::any-to-user-plugin
|    |    |    |-- _zi::load-plugin
|    |    |    |    |-- :zi::tmp-subst-autoload
|    |    |    |    |    |-- +zi::message
|    |    |    |    |    |-- _zi::add-report
|    |    |    |    |    |-- _zi::any-to-user-plugin
|    |    |    |    |    `-- is-at-least
|    |    |    |    |-- _zi::add-report
|    |    |    |    |-- _zi::diff
|    |    |    |    |    |-- _zi::diff-env
|    |    |    |    |    |-- _zi::diff-functions
|    |    |    |    |    |-- _zi::diff-options
|    |    |    |    |    `-- _zi::diff-parameter
|    |    |    |    |-- _zi::diff-env
|    |    |    |    |-- _zi::find-other-matches
|    |    |    |    |-- _zi::tmp-subst-off
|    |    |    |    `-- _zi::tmp-subst-on
|    |    |    |-- _zi::load-snippet
|    |    |    |    |-- +zi::deploy-message
|    |    |    |    |-- +zi::message
|    |    |    |    |-- _zi::add-report
|    |    |    |    |-- _zi::find-other-matches
|-- |    |    |    |-- _zi::get-object-path
|-- |    |    |    |    `-- _zi::any-to-user-plugin
|    |    |    |    |-- _zi::pack-ice
|    |    |    |    |-- _zi::set-m-func
```

```
|   |   |   |   |   `-- +zi::message
|   |   |   |   |-- _zi::setup-params
|   |   |   |   `-- zinit-install.zsh/_zi::download-snippet
|   |   |   |-- _zi::pack-ice
|   |   |   |-- _zi::register-plugin
|   |   |   |   `-- +zi::message
|   |   |   |-- _zi::set-m-func
|   |   |   |   `-- +zi::message
|   |   |   |-- _zi::setup-params
|   |   |   |-- zinit-install.zsh/_zi::get-package
|   |   |   `-- zinit-install.zsh/_zi::setup-plugin-dir
|   |   `-- _zi::load-snippet
|   |       |-- +zi::deploy-message
|   |       |-- +zi::message
|   |       |-- _zi::add-report
|   |       |-- _zi::find-other-matches
|   |       |-- _zi::get-object-path
|   |       |   `-- _zi::any-to-user-plugin
|   |       |-- _zi::pack-ice
|   |       |-- _zi::set-m-func
|   |       |   `-- +zi::message
|   |       |-- _zi::setup-params
|   |       `-- zinit-install.zsh/_zi::download-snippet
|   |-- _zi::parse-opts
|   |-- _zi::run
|   |   |-- +zi::message
|   |   |-- _zi::any-to-user-plugin
|   |   `-- _zi::get-object-path
|   |       `-- _zi::any-to-user-plugin
|   |-- _zi::submit-turbo
|   |-- compinit
|   |-- zinit-additional.zsh/_zi::clear-debug-report
|   |-- zinit-additional.zsh/_zi::debug-start
|   |-- zinit-additional.zsh/_zi::debug-stop
|   |-- zinit-additional.zsh/_zi::debug-unload
|   |-- zinit-autoload.zsh/_zi::cdisable
|   |-- zinit-autoload.zsh/_zi::cenable
|   |-- zinit-autoload.zsh/_zi::clear-completions
|   |-- zinit-autoload.zsh/_zi::compile-uncompile-all
|   |-- zinit-autoload.zsh/_zi::compiled
|   |-- zinit-autoload.zsh/_zi::help
|   |-- zinit-autoload.zsh/_zi::list-bindkeys
|   |-- zinit-autoload.zsh/_zi::list-compdef-replay
|   |-- zinit-autoload.zsh/_zi::ls
|   |-- zinit-autoload.zsh/_zi::module
|   |-- zinit-autoload.zsh/_zi::recently
|   |-- zinit-autoload.zsh/_zi::search-completions
|   |-- zinit-autoload.zsh/_zi::self-update
|   |-- zinit-autoload.zsh/_zi::show-all-reports
|   |-- zinit-autoload.zsh/_zi::show-completions
|   |-- zinit-autoload.zsh/_zi::show-debug-report
```

```
|    |-- zinit-autoload.zsh/_zi::show-registered-plugins
|    |-- zinit-autoload.zsh/_zi::show-report
|    |-- zinit-autoload.zsh/_zi::show-times
|    |-- zinit-autoload.zsh/_zi::show-zstatus
|    |-- zinit-autoload.zsh/_zi::uncompile-plugin
|    |-- zinit-autoload.zsh/_zi::uninstall-completions
|    |-- zinit-autoload.zsh/_zi::unload
|    |-- zinit-autoload.zsh/_zi::update-or-status
|    |-- zinit-autoload.zsh/_zi::update-or-status-all
|    |-- zinit-install.zsh/_zi::compile-plugin
|    |-- zinit-install.zsh/_zi::compinit
|    |-- zinit-install.zsh/_zi::forget-completion
|    `-- zinit-install.zsh/_zi::install-completions
`-- zinit-autoload.zsh/_zi::module
```

Uses feature(s): *add-zsh-hook*, *alias*, *autoload*, *bindkey*, *export*, *is-at-least*, *setopt*, *source*, *zle*, *zmodload*, *zstyle*

Exports (environment): PMSPEC ǁ ZPFX ǁ ZSH_CACHE_DIR

+zi::deploy-message

```
Deploys a sub-prompt message to be displayed OR a 'zle .reset-prompt'
call to be invoked
```

Has 13 line(s). Doesnữ call other functions.

Uses feature(s): *read*, *zle*

Called by:

```
_zi::load-snippet
_zi::load
zinit-autoload.zsh/_zi::recall
```

+zi::message

Has 16 line(s). Doesnữ call other functions.

Called by:

```
+zi::prehelp-usage-message
:zi::tmp-subst-autoload
Script-Body
_zi::compdef-clear
_zi::compdef-replay
_zi::load-snippet
_zi::register-plugin
_zi::run
_zi::set-m-func
zinit
zinit-additional.zsh/:zi::tmp-subst-source
zinit-additional.zsh/_zi::debug-start
zinit-additional.zsh/_zi::debug-unload
zinit-autoload.zsh/_zi::build-module
zinit-autoload.zsh/_zi::cd
zinit-autoload.zsh/_zi::self-update
zinit-autoload.zsh/_zi::show-zstatus
zinit-autoload.zsh/_zi::uninstall-completions
zinit-autoload.zsh/_zi::update-all-parallel
zinit-autoload.zsh/_zi::update-or-status-all
zinit-autoload.zsh/_zi::update-or-status
zinit-autoload.zsh/_zi::wait-for-update-jobs
zinit-install.zsh/\~zi::mv-hook
zinit-install.zsh/\~zi::ps-on-update-hook
zinit-install.zsh/\~zi::reset-hook
zinit-install.zsh/_zi::compile-plugin
zinit-install.zsh/_zi::compinit
zinit-install.zsh/_zi::download-file-stdout
zinit-install.zsh/_zi::download-snippet
zinit-install.zsh/_zi::extract
zinit-install.zsh/_zi::get-cygwin-package
zinit-install.zsh/_zi::get-latest-gh-r-url-part
zinit-install.zsh/_zi::get-package
zinit-install.zsh/_zi::install-completions
zinit-install.zsh/_zi::jq-check
zinit-install.zsh/_zi::setup-plugin-dir
zinit-install.zsh/_zi::update-snippet
zinit-install.zsh/ziextract
zinit-side.zsh/_zi::countdown
zinit-side.zsh/_zi::exists-physically-message
```

+zi::prehelp-usage-message

Has 38 line(s). Calls functions:

```
+zi::prehelp-usage-message
`-- +zi::message
```

Called by:

```
zinit
zinit-autoload.zsh/_zi::delete
```

-zinit_scheduler_add_sh

> Copies task into ZINIT_RUN array, called when a task timeouts.
> A small function ran from pattern in /-substitution as a math
> function.

Has 7 line(s). Doesn໐ call other functions.

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

:zi::reload-and-run

> Marks given function ($3) for autoloading, and executes it triggering the
> load. $1 is the fpath dedicated to the function, $2 are autoload options.
> This function replaces "autoload -X", because using that on older Zsh
> versions causes problems with traps.

> So basically one creates function stub that calls :zi::reload-and-run()
> instead of "autoload -X".

> Author: Bart Schaefer

> $1 - FPATH dedicated to function
> $2 - autoload options
> $3 - function name (one that needs autoloading)

Has 11 line(s). Doesn໐ call other functions.

Uses feature(s): *autoload*, *unfunction*

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

:zi::tmp-subst-alias

> Function defined to hijack plugin's calls to the `alias' builtin.

> The hijacking is to gather report data (which is used in unload).

Has 36 line(s). Calls functions:

```
:zi::tmp-subst-alias
`-- _zi::add-report
```

Uses feature(s): *alias*, *setopt*, *zparseopts*

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

:zi::tmp-subst-autoload

> Hijack plugin's calls to the 'autoload' builtin.

> The hijacking gathers report data and runs custom `autoload' function, that doesn't need FPATH.

Has 111 line(s). Calls functions:

```
:zi::tmp-subst-autoload
|-- +zi::message
|-- _zi::add-report
|-- _zi::any-to-user-plugin
`-- is-at-least
```

Uses feature(s): *autoload*, *eval*, *is-at-least*, *setopt*, *zparseopts*

Called by:

```
@autoload
_zi::load-plugin
```

:zi::tmp-subst-bindkey

> Function defined to hijack plugin's calls to the `bindkey` builtin.

> The hijacking is to gather report data (which is used in unload).

Has 120 line(s). Calls functions:

```
:zi::tmp-subst-bindkey
|-- _zi::add-report
`-- is-at-least
```

Uses feature(s): *bindkey*, *is-at-least*, *setopt*, *zparseopts*

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

:zi::tmp-subst-compdef

> Function defined to hijack plugin's calls to the `compdef` function.
> The hijacking is not only for reporting, but also to save compdef
> calls so that `compinit` can be called after loading plugins.

Has 6 line(s). Calls functions:

```
:zi::tmp-subst-compdef
`-- _zi::add-report
```

Uses feature(s): *setopt*

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

:zi::tmp-subst-zle

> Function defined to hijack plugin's calls to the `zle` builtin.

> The hijacking is to gather report data (which is used in unload).

Has 36 line(s). Calls functions:

```
:zi::tmp-subst-zle
`-- _zi::add-report
```

Uses feature(s): *setopt*, *zle*

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

:zi::tmp-subst-zstyle

> Function defined to hijack plugin's calls to the `zstyle` builtin.

> The hijacking is to gather report data (which is used in unload).

Has 23 line(s). Calls functions:

```
:zi::tmp-subst-zstyle
`-- _zi::add-report
```

Uses feature(s): *setopt*, *zparseopts*, *zstyle*

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

@autoload

Has 4 line(s). Calls functions:

```
@autoload
`-- :zi::tmp-subst-autoload
    |-- +zi::message
    |-- _zi::add-report
    |-- _zi::any-to-user-plugin
    `-- is-at-least
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

@zi::register-annex

>]]]
> Registers the z-annex inside Zinit i.e. an Zinit extension

Has 11 line(s). Doesn call other functions.

Uses feature(s): *setopt*

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

@zi::register-hook

> Registers the z-annex inside Zinit (i.e., an Zinit extension)

Has 6 line(s). Doesn't call other functions.

Uses feature(s): *setopt*

Called by:

> Script-Body

@zi::scheduler

> Searches for timeout tasks, executes them. Theres an array of tasks
> waiting for execution, this scheduler manages them, detects which ones
> should be run at current moment, decides to remove (or not) them from
> the array after execution.

> $1 - if "following", then it is non-first (second and more)
> invocation of the scheduler; this results in chain of 'sched'
> invocations that results in repetitive @zi::scheduler activity.

> if "burst", then all tasks are marked timeout and executed one
> by one; this is handy if e.g. a docker image starts up and
> needs to install all turbo-mode plugins without any hesitation
> (delay), i.e. "burst" allows to run package installations from
> script, not from prompt.

Has 75 line(s). **Is a precmd hook**. Calls functions:

```
@zi::scheduler
|-- _zi::run-task
|   |-- _zi::load
|   |   |-- +zi::deploy-message
|   |   |-- _zi::any-to-user-plugin
|   |   |-- _zi::load-plugin
|   |   |   |-- :zi::tmp-subst-autoload
|   |   |   |   |-- +zi::message
|   |   |   |   |-- _zi::add-report
|   |   |   |   |-- _zi::any-to-user-plugin
|   |   |   |   `-- is-at-least
|   |   |   |-- _zi::add-report
```

```
|   |   |   |   |-- _zi::diff
|   |   |   |   |   |-- _zi::diff-env
|   |   |   |   |   |-- _zi::diff-functions
|   |   |   |   |   |-- _zi::diff-options
|   |   |   |   |   `-- _zi::diff-parameter
|   |   |   |-- _zi::diff-env
|   |   |   |-- _zi::find-other-matches
|   |   |   |-- _zi::tmp-subst-off
|   |   |   `-- _zi::tmp-subst-on
|   |   |-- _zi::load-snippet
|   |   |   |-- +zi::deploy-message
|   |   |   |-- +zi::message
|   |   |   |-- _zi::add-report
|   |   |   |-- _zi::find-other-matches
|   |   |   |-- _zi::get-object-path
|   |   |   |   `-- _zi::any-to-user-plugin
|   |   |   |-- _zi::pack-ice
|   |   |   |-- _zi::set-m-func
|   |   |   |   `-- +zi::message
|   |   |   |-- _zi::setup-params
|   |   |   `-- zinit-install.zsh/_zi::download-snippet
|   |   |-- _zi::pack-ice
|   |   |-- _zi::register-plugin
|   |   |   `-- +zi::message
|   |   |-- _zi::set-m-func
|   |   |   `-- +zi::message
|   |   |-- _zi::setup-params
|   |   |-- zinit-install.zsh/_zi::get-package
|   |   `-- zinit-install.zsh/_zi::setup-plugin-dir
|   |-- _zi::load-snippet
|   |   |-- +zi::deploy-message
|   |   |-- +zi::message
|   |   |-- _zi::add-report
|   |   |-- _zi::find-other-matches
|   |   |-- _zi::get-object-path
|   |   |   `-- _zi::any-to-user-plugin
|   |   |-- _zi::pack-ice
|   |   |-- _zi::set-m-func
|   |   |   `-- +zi::message
|   |   |-- _zi::setup-params
|   |   `-- zinit-install.zsh/_zi::download-snippet
|   `-- zinit-autoload.zsh/_zi::unload
`-- add-zsh-hook
```

Uses feature(s): *add-zsh-hook*, *sched*, *setopt*, *zle*

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

@zi::substitute

Has 40 line(s). Doesn't call other functions.

Uses feature(s): *setopt*

Called by:

```
zinit-autoload.zsh/_zi::at-eval
zinit-install.zsh/\~zi::atclone-hook
zinit-install.zsh/\~zi::configure-base-hook
zinit-install.zsh/\~zi::cp-hook
zinit-install.zsh/\~zi::extract-hook
zinit-install.zsh/\~zi::make-base-hook
zinit-install.zsh/\~zi::mv-hook
zinit-install.zsh/_zi::at-eval
zinit-install.zsh/_zi::get-package
```

Environment variables used: ZPFX

@zsh-plugin-run-on-unload

> The Plugin Standard required mechanism, see:
> https://zdharma-continuum.github.io/Zsh-100-Commits-Club/Zsh-Plugin-Standard.html

Has 2 line(s). Calls functions:

```
@zsh-plugin-run-on-unload
`-- _zi::pack-ice
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

@zsh-plugin-run-on-update

> The Plugin Standard required mechanism

Has 2 line(s). Calls functions:

```
@zsh-plugin-run-on-update
`-- _zi::pack-ice
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

_zi::add-fpath

Has 10 line(s). Calls functions:

```
_zi::add-fpath
`-- _zi::any-to-user-plugin
```

Called by:

```
zinit
```

_zi::add-report

```
Adds a report line for given plugin.
```

```
$1 - uspl2, i.e. user/plugin
$2 - the text
```

Has 3 line(s). Doesn& call other functions.

Called by:

```
:zi::tmp-subst-alias
:zi::tmp-subst-autoload
:zi::tmp-subst-bindkey
:zi::tmp-subst-compdef
:zi::tmp-subst-zle
:zi::tmp-subst-zstyle
_zi::load-plugin
_zi::load-snippet
```

_zi::any-to-pid

Has 22 line(s). Calls functions:

```
_zi::any-to-pid
`-- _zi::util-shands-path
```

Uses feature(s): *setopt*

Called by:

```
zinit-side.zsh/_zi::any-colorify-as-uspl2
zinit-side.zsh/_zi::exists-physically-message
zinit-side.zsh/_zi::first
```

_zi::any-to-user-plugin

Allows elastic plugin-spec across the code.

$1 - plugin spec (4 formats: user---plugin, user/plugin, user, plugin)
$2 - plugin (only when $1 - i.e. user - given)

$REPLY - user and plugin

Has 29 line(s). Doesnữ call other functions.

Uses feature(s): *setopt*

Called by:

```
:zi::tmp-subst-autoload
_zi::add-fpath
_zi::get-object-path
_zi::load
_zi::run
zinit-autoload.zsh/_zi::any-to-uspl2
zinit-autoload.zsh/_zi::changes
zinit-autoload.zsh/_zi::compile-uncompile-all
zinit-autoload.zsh/_zi::compiled
zinit-autoload.zsh/_zi::create
zinit-autoload.zsh/_zi::delete
zinit-autoload.zsh/_zi::find-completions-of-plugin
zinit-autoload.zsh/_zi::glance
zinit-autoload.zsh/_zi::show-report
zinit-autoload.zsh/_zi::stress
zinit-autoload.zsh/_zi::uncompile-plugin
zinit-autoload.zsh/_zi::unload
zinit-autoload.zsh/_zi::unregister-plugin
zinit-autoload.zsh/_zi::update-all-parallel
zinit-autoload.zsh/_zi::update-or-status-all
zinit-autoload.zsh/_zi::update-or-status
zinit-install.zsh/_zi::install-completions
zinit-side.zsh/_zi::any-colorify-as-uspl2
zinit-side.zsh/_zi::compute-ice
zinit-side.zsh/_zi::exists-physically-message
zinit-side.zsh/_zi::exists-physically
zinit-side.zsh/_zi::first
```

Environment variables used: ZPFX

_zi::compdef-clear

> Implements user-exposed functionality to clear gathered compdefs.

Has 3 line(s). Calls functions:

```
_zi::compdef-clear
`-- +zi::message
```

Called by:

```
zicdclear
zinit
zpcdclear
```

_zi::compdef-replay

> Runs gathered compdef calls. This allows to run 'compinit' after loading plugins.

Has 17 line(s). Calls functions:

```
_zi::compdef-replay
`-- +zi::message
```

Uses feature(s): *compdef*

Called by:

```
zicdreplay
zinit
zpcdreplay
```

_zi::diff

> Performs diff actions of all types

Has 4 line(s). Calls functions:

```
_zi::diff
|-- _zi::diff-env
|-- _zi::diff-functions
|-- _zi::diff-options
`-- _zi::diff-parameter
```

Called by:

```
_zi::load-plugin
zinit-additional.zsh/_zi::debug-start
zinit-additional.zsh/_zi::debug-stop
```

_zi::diff-env

```
Implements detection of change in PATH and FPATH.
```

```
$1 - user/plugin (i.e. uspl2 format)
$2 - command, can be "begin" or "end"
```

Has 18 line(s). Doesn't call other functions.

Called by:

```
_zi::diff
_zi::load-plugin
```

_zi::diff-functions

```
Implements detection of newly created functions. Performs
data gathering, computation is done in *-compute().
```

```
$1 - user/plugin (i.e. uspl2 format)
$2 - command, can be "begin" or "end"
```

Has 8 line(s). Doesn't call other functions.

Called by:

```
_zi::diff
```

_zi::diff-options

```
Implements detection of change in option state. Performs
data gathering, computation is done in *-compute().
```

```
$1 - user/plugin (i.e. uspl2 format)
$2 - command, can be "begin" or "end"
```

Has 7 line(s). Doesn't call other functions.

Called by:

```
_zi::diff
```

_zi::diff-parameter

```
Implements detection of change in any parameter's existence and type.
Performs data gathering, computation is done in *-compute().
```

```
$1 - user/plugin (i.e. uspl2 format)
$2 - command, can be "begin" or "end"
```

Has 9 line(s). Doesn't call other functions.

Called by:

```
_zi::diff
```

_zi::find-other-matches

```
Plugin's main source file is in general `name.plugin.zsh'. However,
there can be different conventions, if that file is not found, then
this functions examines other conventions in the most sane order.
```

Has 22 line(s). Doesn't call other functions.

Called by:

```
_zi::load-plugin
_zi::load-snippet
zinit-side.zsh/_zi::first
```

_zi::formatter-auto

Has 50 line(s). Calls functions:

```
_zi::formatter-auto
|-- _zi::formatter-pid
|    `-- zinit-side.zsh/_zi::any-colorify-as-uspl2
`-- _zi::formatter-url
```

Uses feature(s): *type*

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

_zi::formatter-bar

Has 1 line(s). Calls functions:

```
_zi::formatter-bar
`-- _zi::formatter-bar-util
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

_zi::formatter-bar-util

Has 7 line(s). Doesnẗ call other functions.

Called by:

```
_zi::formatter-bar
_zi::formatter-th-bar
```

_zi::formatter-dbg

Has 5 line(s). Doesnẗ call other functions.

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

_zi::formatter-pid

Has 11 line(s). Calls functions:

```
_zi::formatter-pid
`-- zinit-side.zsh/_zi::any-colorify-as-uspl2
```

Uses feature(s): *source*

Called by:

```
_zi::formatter-auto
```

_zi::formatter-th-bar

Has 1 line(s). Calls functions:

```
_zi::formatter-th-bar
`-- _zi::formatter-bar-util
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

_zi::formatter-url

Has 19 line(s). Doesñ call other functions.

Called by:

```
_zi::formatter-auto
```

_zi::get-mtime-into

Has 7 line(s). Doesñ call other functions.

Called by:

```
Script-Body
zinit-autoload.zsh/_zi::self-update
zinit-autoload.zsh/_zi::update-or-status-all
```

_zi::get-object-path

Has 28 line(s). Calls functions:

```
_zi::get-object-path
`-- _zi::any-to-user-plugin
```

Called by:

```
_zi::load-ices
_zi::load-snippet
_zi::run
zinit
zinit-autoload.zsh/_zi::get-path
zinit-install.zsh/_zi::setup-plugin-dir
zinit-install.zsh/_zi::update-snippet
zinit-side.zsh/_zi::first
zinit-side.zsh/_zi::two-paths
```

_zi::ice

> Parses ICE specification, puts the result into ICE global hash.
> The ice-spec is valid for next command only (i.e. it "melts"), but
> it can then stick to plugin and activate e.g. at update.

Has 13 line(s). Doesnɑ̃ call other functions.

Uses feature(s): *setopt*

Called by:

```
zinit
```

Environment variables used: ZPFX

_zi::load

> Implements the exposed-to-user action of loading a plugin.

> $1 - plugin spec (4 formats: user---plugin, user/plugin, user, plugin)
> $2 - plugin name, if the third format is used

Has 95 line(s). Calls functions:

```
_zi::load
|-- +zi::deploy-message
|-- _zi::any-to-user-plugin
|-- _zi::load-plugin
|    |-- :zi::tmp-subst-autoload
|    |    |-- +zi::message
|    |    |-- _zi::add-report
|    |    |-- _zi::any-to-user-plugin
|    |    `-- is-at-least
|    |-- _zi::add-report
|    |-- _zi::diff
|    |    |-- _zi::diff-env
|    |    |-- _zi::diff-functions
|    |    |-- _zi::diff-options
|    |    `-- _zi::diff-parameter
|    |-- _zi::diff-env
|    |-- _zi::find-other-matches
|    |-- _zi::tmp-subst-off
|    `-- _zi::tmp-subst-on
|-- _zi::load-snippet
|    |-- +zi::deploy-message
|    |-- +zi::message
|    |-- _zi::add-report
|    |-- _zi::find-other-matches
|    |-- _zi::get-object-path
|    |    `-- _zi::any-to-user-plugin
|    |-- _zi::pack-ice
|    |-- _zi::set-m-func
|    |    `-- +zi::message
|    |-- _zi::setup-params
|    `-- zinit-install.zsh/_zi::download-snippet
|-- _zi::pack-ice
|-- _zi::register-plugin
|    `-- +zi::message
|-- _zi::set-m-func
|    `-- +zi::message
|-- _zi::setup-params
|-- zinit-install.zsh/_zi::get-package
`-- zinit-install.zsh/_zi::setup-plugin-dir
```

Uses feature(s): *eval*, *setopt*, *source*, *zle*

Called by:

```
_zi::load-object
_zi::run-task
zinit-additional.zsh/_zi::service
```

_zi::load-ices

Has 22 line(s). Calls functions:

```
_zi::load-ices
`-- _zi::get-object-path
    `-- _zi::any-to-user-plugin
```

Called by:

```
zinit
```

Environment variables used: ZPFX

_zi::load-object

Has 12 line(s). Calls functions:

```
_zi::load-object
|-- _zi::load
|   |-- +zi::deploy-message
|   |-- _zi::any-to-user-plugin
|   |-- _zi::load-plugin
|   |   |-- :zi::tmp-subst-autoload
|   |   |   |-- +zi::message
|   |   |   |-- _zi::add-report
|   |   |   |-- _zi::any-to-user-plugin
|   |   |   `-- is-at-least
|   |   |-- _zi::add-report
|   |   |-- _zi::diff
|   |   |   |-- _zi::diff-env
|   |   |   |-- _zi::diff-functions
|   |   |   |-- _zi::diff-options
|   |   |   `-- _zi::diff-parameter
|   |   |-- _zi::diff-env
|   |   |-- _zi::find-other-matches
|   |   |-- _zi::tmp-subst-off
|   |   `-- _zi::tmp-subst-on
|   |-- _zi::load-snippet
|   |   |-- +zi::deploy-message
|   |   |-- +zi::message
|   |   |-- _zi::add-report
|   |   |-- _zi::find-other-matches
|   |   |-- _zi::get-object-path
|   |   |   `-- _zi::any-to-user-plugin
|   |   |-- _zi::pack-ice
|   |   |-- _zi::set-m-func
```

```
|   |   |   `-- +zi::message
|   |   |-- _zi::setup-params
|   |   `-- zinit-install.zsh/_zi::download-snippet
|   |-- _zi::pack-ice
|   |-- _zi::register-plugin
|   |   `-- +zi::message
|   |-- _zi::set-m-func
|   |   `-- +zi::message
|   |-- _zi::setup-params
|   |-- zinit-install.zsh/_zi::get-package
|   `-- zinit-install.zsh/_zi::setup-plugin-dir
`-- _zi::load-snippet
    |-- +zi::deploy-message
    |-- +zi::message
    |-- _zi::add-report
    |-- _zi::find-other-matches
    |-- _zi::get-object-path
    |   `-- _zi::any-to-user-plugin
    |-- _zi::pack-ice
    |-- _zi::set-m-func
    |   `-- +zi::message
    |-- _zi::setup-params
    `-- zinit-install.zsh/_zi::download-snippet
```

Called by:

```
zinit
```

_zi::load-plugin

```
Lower-level function for loading a plugin.
```

```
$1 - user
$2 - plugin
$3 - mode (light or load)
```

Has 128 line(s). Calls functions:

```
_zi::load-plugin
|-- :zi::tmp-subst-autoload
|   |-- +zi::message
|   |-- _zi::add-report
|   |-- _zi::any-to-user-plugin
|   `-- is-at-least
|-- _zi::add-report
|-- _zi::diff
|   |-- _zi::diff-env
|   |-- _zi::diff-functions
|   |-- _zi::diff-options
|   `-- _zi::diff-parameter
|-- _zi::diff-env
|-- _zi::find-other-matches
|-- _zi::tmp-subst-off
`-- _zi::tmp-subst-on
```

Uses feature(s): *eval*, *setopt*, *source*, *unfunction*, *zle*

Called by:

```
_zi::load
```

_zi::load-snippet

> Implements the exposed-to-user action of loading a snippet.

> $1 - url (can be local, absolute path).

Has 203 line(s). Calls functions:

```
_zi::load-snippet
|-- +zi::deploy-message
|-- +zi::message
|-- _zi::add-report
|-- _zi::find-other-matches
|-- _zi::get-object-path
|   `-- _zi::any-to-user-plugin
|-- _zi::pack-ice
|-- _zi::set-m-func
|   `-- +zi::message
|-- _zi::setup-params
`-- zinit-install.zsh/_zi::download-snippet
```

Uses feature(s): *autoload*, *eval*, *setopt*, *source*, *unfunction*, *zparseopts*, *zstyle*

Called by:

```
_zi::load-object
_zi::load
_zi::run-task
pmodload
zinit-additional.zsh/_zi::service
```

_zi::main-message-formatter

Has 18 line(s). Doesnẽt call other functions.

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

_zi::pack-ice

> Remembers all ice-mods, assigns them to concrete plugin. Ice spec
> is in general forgotten for second-next command (i.e., ice melts quickly),
> however they
> glue to the object (plugin or snippet) mentioned in the next command for later
> use with (e.g. 'zinit update ...').

Has 3 line(s). Doesnẽt call other functions.

Called by:

```
@zsh-plugin-run-on-unload
@zsh-plugin-run-on-update
_zi::load-snippet
_zi::load
zinit-install.zsh/_zi::update-snippet
zinit-side.zsh/_zi::compute-ice
```

_zi::parse-opts

Has 2 line(s). Doesnẽt call other functions.

Called by:

```
zinit
zinit-autoload.zsh/_zi::delete
```

_zi::prepare-home

> Creates all directories needed by Zinit, first checks if they
> already exist.

Has 45 line(s). Calls functions:

```
_zi::prepare-home
|-- zinit-autoload.zsh/_zi::clear-completions
`-- zinit-install.zsh/_zi::compinit
```

Uses feature(s): *source*

Called by:

```
Script-Body
```

Environment variables used: ZPFX

_zi::register-plugin

> Adds the plugin to ZINIT_REGISTERED_PLUGINS array and to the
> zsh_loaded_plugins array (managed according to the plugin standard:
> https://zdharma-continuum.github.io/Zsh-100-Commits-Club/Zsh-Plugin-
> Standard.html).

Has 23 line(s). Calls functions:

```
_zi::register-plugin
`-- +zi::message
```

Called by:

```
_zi::load
```

_zi::run

> Run code inside plugins folder
> It uses the 'correct' parameter from uppers scope zinit().

Has 24 line(s). Calls functions:

```
_zi::run
|-- +zi::message
|-- _zi::any-to-user-plugin
`-- _zi::get-object-path
    `-- _zi::any-to-user-plugin
```

Uses feature(s): *eval*, *setopt*

Called by:

```
zinit
```

_zi::run-task

A backend, worker function of _zi::scheduler. It obtains the tasks
index and a few of its properties (like the type: plugin, snippet,
service plugin, service snippet) and executes it first checking for
additional conditions (like non-numeric wait'' ice).

```
$1 - current pass: 1 or 2
$2 - time assigned to the task
$3 - type: plugin, service plugin, service snippet, snippet
$4 - tasks index in the ZINIT[WAIT_ICE_...] fields
$5 - mode: load, light
$6 - details: alias name (derived from id-as''), plugin-spec, or snippet URL
```

Has 47 line(s). Calls functions:

```
_zi::run-task
|-- _zi::load
|   |-- +zi::deploy-message
|   |-- _zi::any-to-user-plugin
|   |-- _zi::load-plugin
|   |   |-- :zi::tmp-subst-autoload
|   |   |   |-- +zi::message
|   |   |   |-- _zi::add-report
|   |   |   |-- _zi::any-to-user-plugin
|   |   |   `-- is-at-least
|   |   |-- _zi::add-report
|   |   |-- _zi::diff
|   |   |   |-- _zi::diff-env
|   |   |   |-- _zi::diff-functions
|   |   |   |-- _zi::diff-options
```

```
|   |   |   `-- _zi::diff-parameter
|   |   |-- _zi::diff-env
|   |   |-- _zi::find-other-matches
|   |   |-- _zi::tmp-subst-off
|   |   `-- _zi::tmp-subst-on
|   |-- _zi::load-snippet
|   |   |-- +zi::deploy-message
|   |   |-- +zi::message
|   |   |-- _zi::add-report
|   |   |-- _zi::find-other-matches
|   |   |-- _zi::get-object-path
|   |   |   `-- _zi::any-to-user-plugin
|   |   |-- _zi::pack-ice
|   |   |-- _zi::set-m-func
|   |   |   `-- +zi::message
|   |   |-- _zi::setup-params
|   |   `-- zinit-install.zsh/_zi::download-snippet
|   |-- _zi::pack-ice
|   |-- _zi::register-plugin
|   |   `-- +zi::message
|   |-- _zi::set-m-func
|   |   `-- +zi::message
|   |-- _zi::setup-params
|   |-- zinit-install.zsh/_zi::get-package
|   `-- zinit-install.zsh/_zi::setup-plugin-dir
|-- _zi::load-snippet
|   |-- +zi::deploy-message
|   |-- +zi::message
|   |-- _zi::add-report
|   |-- _zi::find-other-matches
|   |-- _zi::get-object-path
|   |   `-- _zi::any-to-user-plugin
|   |-- _zi::pack-ice
|   |-- _zi::set-m-func
|   |   `-- +zi::message
|   |-- _zi::setup-params
|   `-- zinit-install.zsh/_zi::download-snippet
`-- zinit-autoload.zsh/_zi::unload
```

Uses feature(s): *eval*, *source*, *zle*, *zpty*

Called by:

```
@zi::scheduler
```

_zi::set-m-func

```
]]]
Sets and withdraws the temporary, atclone/atpull time function `m`.
```

Has 17 line(s). Calls functions:

```
_zi::set-m-func
`-- +zi::message
```

Uses feature(s): *setopt*

Called by:

```
_zi::load-snippet
_zi::load
zinit-autoload.zsh/_zi::update-or-status
```

_zi::setup-params

Has 3 line(s). Doesnᾶ call other functions.

Called by:

```
_zi::load-snippet
_zi::load
```

_zi::submit-turbo

```
If `zinit load`, `zinit light` or `zinit snippet`  will be
preceded with 'wait', 'load', 'unload' or 'on-update-of'/'subscribe'
ice-mods then the plugin or snipped is to be loaded in turbo-mode,
and this function adds it to internal data structures. @zi::scheduler uses the
data to
create load or unload tasks.
```

Has 16 line(s). Doesnᾶ call other functions.

Called by:

```
zinit
```

_zi::tmp-subst-off

> Turn off temporary substituting of functions completely for a given mode ("load",
> "light",
> "light-b" (i.e. the `trackbinds' mode) or "compdef").

Has 21 line(s). Doesn't call other functions.

Uses feature(s): *setopt*, *unfunction*

Called by:

```
_zi::load-plugin
zinit-additional.zsh/_zi::debug-stop
```

_zi::tmp-subst-on

> Turn on temporary substituting of functions of builtins and functions according
> to passed
> mode ("load", "light", "light-b" or "compdef"). The temporary substituting of
> functions is
> to gather report data, and to hijack 'autoload', 'bindkey' and 'compdef' calls.

Has 32 line(s). Doesn't call other functions.

Uses feature(s): *source*

Called by:

```
_zi::load-plugin
zinit-additional.zsh/_zi::debug-start
```

_zi::util-shands-path

> Replaces parts of path with %HOME, etc.

Has 9 line(s). Doesn't call other functions.

Uses feature(s): *setopt*

Called by:

```
_zi::any-to-pid
```

Environment variables used: ZPFX

pmodload

Has 15 line(s). Calls functions:

```
pmodload
`-- _zi::load-snippet
    |-- +zi::deploy-message
    |-- +zi::message
    |-- _zi::add-report
    |-- _zi::find-other-matches
    |-- _zi::get-object-path
    |   `-- _zi::any-to-user-plugin
    |-- _zi::pack-ice
    |-- _zi::set-m-func
    |   `-- +zi::message
    |-- _zi::setup-params
    `-- zinit-install.zsh/_zi::download-snippet
```

Uses feature(s): *zstyle*

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

zicdclear

> A wrapper for "zinit cdclear -q" which can be called from hook
> ices like the atinit"", atload"", etc. ices.

Has 1 line(s). Calls functions:

```
zicdclear
`-- _zi::compdef-clear
    `-- +zi::message
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

zicdreplay

> A function that can be invoked from within "atinit", "atload", etc.
> ice-mod. It works like "zinit cdreplay", which cannot be invoked from such hook
> ices

Has 1 line(s). Calls functions:

```
zicdreplay
`-- _zi::compdef-replay
    `-- +zi::message
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

zicompdef

> Stores compdef for a replay with "zicdreplay" (turbo mode) or
> with "zinit cdreplay" (normal mode). An utility functton of an undefined use
> case.

Has 1 line(s). Doesnﾑ call other functions.

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

zicompinit

> A function that can be invoked from within "atinit", "atload", etc.
> ice-mod. It runs "autoload compinit; compinit" and respects
> ZINIT[ZCOMPDUMP_PATH] and ZINIT[COMPINIT_OPTS].

Has 2 line(s). Calls functions:

```
zicompinit
`-- compinit
```

Uses feature(s): *autoload*, *compinit*

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

zinit

> Entrypoint function directly exposed to user, consumes subcommands with
> respective arguments,
> and completion.

Has 560 line(s). Calls functions:

```
zinit
|-- +zi::message
|-- +zi::prehelp-usage-message
|    `-- +zi::message
|-- _zi::add-fpath
|    `-- _zi::any-to-user-plugin
|-- _zi::compdef-clear
|    `-- +zi::message
|-- _zi::compdef-replay
|    `-- +zi::message
|-- _zi::get-object-path
|    `-- _zi::any-to-user-plugin
|-- _zi::ice
|-- _zi::load-ices
|    `-- _zi::get-object-path
|         `-- _zi::any-to-user-plugin
|-- _zi::load-object
|    |-- _zi::load
|    |    |-- +zi::deploy-message
|    |    |-- _zi::any-to-user-plugin
|    |    |-- _zi::load-plugin
|    |    |    |-- :zi::tmp-subst-autoload
|    |    |    |    |-- +zi::message
|    |    |    |    |-- _zi::add-report
|    |    |    |    |-- _zi::any-to-user-plugin
|    |    |    |    `-- is-at-least
|    |    |    |-- _zi::add-report
|    |    |    |-- _zi::diff
|    |    |    |    |-- _zi::diff-env
|    |    |    |    |-- _zi::diff-functions
|    |    |    |    |-- _zi::diff-options
|    |    |    |    `-- _zi::diff-parameter
|    |    |    |-- _zi::diff-env
|    |    |    |-- _zi::find-other-matches
|    |    |    |-- _zi::tmp-subst-off
|    |    |    `-- _zi::tmp-subst-on
|    |    |-- _zi::load-snippet
|    |    |    |-- +zi::deploy-message
|    |    |    |-- +zi::message
|    |    |    |-- _zi::add-report
|    |    |    |-- _zi::find-other-matches
|    |    |    |-- _zi::get-object-path
|    |    |    |    `-- _zi::any-to-user-plugin
```

```
|   |   |   |-- _zi::pack-ice
|   |   |   |-- _zi::set-m-func
|   |   |   |   `-- +zi::message
|   |   |   |-- _zi::setup-params
|   |   |   `-- zinit-install.zsh/_zi::download-snippet
|   |   |-- _zi::pack-ice
|   |   |-- _zi::register-plugin
|   |   |   `-- +zi::message
|   |   |-- _zi::set-m-func
|   |   |   `-- +zi::message
|   |   |-- _zi::setup-params
|   |   |-- zinit-install.zsh/_zi::get-package
|   |   `-- zinit-install.zsh/_zi::setup-plugin-dir
|   `-- _zi::load-snippet
|       |-- +zi::deploy-message
|       |-- +zi::message
|       |-- _zi::add-report
|       |-- _zi::find-other-matches
|       |-- _zi::get-object-path
|       |   `-- _zi::any-to-user-plugin
|       |-- _zi::pack-ice
|       |-- _zi::set-m-func
|       |   `-- +zi::message
|       |-- _zi::setup-params
|       `-- zinit-install.zsh/_zi::download-snippet
|-- _zi::parse-opts
|-- _zi::run
|   |-- +zi::message
|   |-- _zi::any-to-user-plugin
|   `-- _zi::get-object-path
|       `-- _zi::any-to-user-plugin
|-- _zi::submit-turbo
|-- compinit
|-- zinit-additional.zsh/_zi::clear-debug-report
|-- zinit-additional.zsh/_zi::debug-start
|-- zinit-additional.zsh/_zi::debug-stop
|-- zinit-additional.zsh/_zi::debug-unload
|-- zinit-autoload.zsh/_zi::cdisable
|-- zinit-autoload.zsh/_zi::cenable
|-- zinit-autoload.zsh/_zi::clear-completions
|-- zinit-autoload.zsh/_zi::compile-uncompile-all
|-- zinit-autoload.zsh/_zi::compiled
|-- zinit-autoload.zsh/_zi::help
|-- zinit-autoload.zsh/_zi::list-bindkeys
|-- zinit-autoload.zsh/_zi::list-compdef-replay
|-- zinit-autoload.zsh/_zi::ls
|-- zinit-autoload.zsh/_zi::module
|-- zinit-autoload.zsh/_zi::recently
|-- zinit-autoload.zsh/_zi::search-completions
|-- zinit-autoload.zsh/_zi::self-update
|-- zinit-autoload.zsh/_zi::show-all-reports
```

```
|-- zinit-autoload.zsh/_zi::show-completions
|-- zinit-autoload.zsh/_zi::show-debug-report
|-- zinit-autoload.zsh/_zi::show-registered-plugins
|-- zinit-autoload.zsh/_zi::show-report
|-- zinit-autoload.zsh/_zi::show-times
|-- zinit-autoload.zsh/_zi::show-zstatus
|-- zinit-autoload.zsh/_zi::uncompile-plugin
|-- zinit-autoload.zsh/_zi::uninstall-completions
|-- zinit-autoload.zsh/_zi::unload
|-- zinit-autoload.zsh/_zi::update-or-status
|-- zinit-autoload.zsh/_zi::update-or-status-all
|-- zinit-install.zsh/_zi::compile-plugin
|-- zinit-install.zsh/_zi::compinit
|-- zinit-install.zsh/_zi::forget-completion
`-- zinit-install.zsh/_zi::install-completions
```

Uses feature(s): *autoload*, *compinit*, *eval*, *setopt*, *source*

Called by:

```
Script-Body
zplugin
```

zpcdclear

Has 1 line(s). Calls functions:

```
zpcdclear
`-- _zi::compdef-clear
    `-- +zi::message
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

zpcdreplay

Has 1 line(s). Calls functions:

```
zpcdreplay
`-- _zi::compdef-replay
    `-- +zi::message
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

zpcompdef

Has 1 line(s). Doesn't call other functions.

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

zpcompinit

Has 2 line(s). Calls functions:

```
zpcompinit
`-- compinit
```

Uses feature(s): *autoload*, *compinit*

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

zplugin

Has 1 line(s). Calls functions:

```
zplugin
`-- zinit
    |-- +zi::message
    |-- +zi::prehelp-usage-message
    |   `-- +zi::message
    |-- _zi::add-fpath
    |   `-- _zi::any-to-user-plugin
    |-- _zi::compdef-clear
    |   `-- +zi::message
    |-- _zi::compdef-replay
    |   `-- +zi::message
    |-- _zi::get-object-path
    |   `-- _zi::any-to-user-plugin
    |-- _zi::ice
    |-- _zi::load-ices
    |   `-- _zi::get-object-path
    |       `-- _zi::any-to-user-plugin
    |-- _zi::load-object
    |   |-- _zi::load
    |   |   |-- +zi::deploy-message
    |   |   |-- _zi::any-to-user-plugin
    |   |   |-- _zi::load-plugin
    |   |   |   |-- :zi::tmp-subst-autoload
    |   |   |   |   |-- +zi::message
    |   |   |   |   |-- _zi::add-report
    |   |   |   |   |-- _zi::any-to-user-plugin
    |   |   |   |   `-- is-at-least
```

```
|   |   |   |-- _zi::add-report
|   |   |   |-- _zi::diff
|   |   |   |   |-- _zi::diff-env
|   |   |   |   |-- _zi::diff-functions
|   |   |   |   |-- _zi::diff-options
|   |   |   |   `-- _zi::diff-parameter
|   |   |   |-- _zi::diff-env
|   |   |   |-- _zi::find-other-matches
|   |   |   |-- _zi::tmp-subst-off
|   |   |   `-- _zi::tmp-subst-on
|   |   |-- _zi::load-snippet
|   |   |   |-- +zi::deploy-message
|   |   |   |-- +zi::message
|   |   |   |-- _zi::add-report
|   |   |   |-- _zi::find-other-matches
|   |   |   |-- _zi::get-object-path
|   |   |   |   `-- _zi::any-to-user-plugin
|   |   |   |-- _zi::pack-ice
|   |   |   |-- _zi::set-m-func
|   |   |   |   `-- +zi::message
|   |   |   |-- _zi::setup-params
|   |   |   `-- zinit-install.zsh/_zi::download-snippet
|   |   |-- _zi::pack-ice
|   |   |-- _zi::register-plugin
|   |   |   `-- +zi::message
|   |   |-- _zi::set-m-func
|   |   |   `-- +zi::message
|   |   |-- _zi::setup-params
|   |   |-- zinit-install.zsh/_zi::get-package
|   |   `-- zinit-install.zsh/_zi::setup-plugin-dir
|   `-- _zi::load-snippet
|       |-- +zi::deploy-message
|       |-- +zi::message
|       |-- _zi::add-report
|       |-- _zi::find-other-matches
|       |-- _zi::get-object-path
|       |   `-- _zi::any-to-user-plugin
|       |-- _zi::pack-ice
|       |-- _zi::set-m-func
|       |   `-- +zi::message
|       |-- _zi::setup-params
|       `-- zinit-install.zsh/_zi::download-snippet
|-- _zi::parse-opts
|-- _zi::run
|   |-- +zi::message
|   |-- _zi::any-to-user-plugin
|   `-- _zi::get-object-path
|       `-- _zi::any-to-user-plugin
|-- _zi::submit-turbo
|-- compinit
|-- zinit-additional.zsh/_zi::clear-debug-report
```

```
|-- zinit-additional.zsh/_zi::debug-start
|-- zinit-additional.zsh/_zi::debug-stop
|-- zinit-additional.zsh/_zi::debug-unload
|-- zinit-autoload.zsh/_zi::cdisable
|-- zinit-autoload.zsh/_zi::cenable
|-- zinit-autoload.zsh/_zi::clear-completions
|-- zinit-autoload.zsh/_zi::compile-uncompile-all
|-- zinit-autoload.zsh/_zi::compiled
|-- zinit-autoload.zsh/_zi::help
|-- zinit-autoload.zsh/_zi::list-bindkeys
|-- zinit-autoload.zsh/_zi::list-compdef-replay
|-- zinit-autoload.zsh/_zi::ls
|-- zinit-autoload.zsh/_zi::module
|-- zinit-autoload.zsh/_zi::recently
|-- zinit-autoload.zsh/_zi::search-completions
|-- zinit-autoload.zsh/_zi::self-update
|-- zinit-autoload.zsh/_zi::show-all-reports
|-- zinit-autoload.zsh/_zi::show-completions
|-- zinit-autoload.zsh/_zi::show-debug-report
|-- zinit-autoload.zsh/_zi::show-registered-plugins
|-- zinit-autoload.zsh/_zi::show-report
|-- zinit-autoload.zsh/_zi::show-times
|-- zinit-autoload.zsh/_zi::show-zstatus
|-- zinit-autoload.zsh/_zi::uncompile-plugin
|-- zinit-autoload.zsh/_zi::uninstall-completions
|-- zinit-autoload.zsh/_zi::unload
|-- zinit-autoload.zsh/_zi::update-or-status
|-- zinit-autoload.zsh/_zi::update-or-status-all
|-- zinit-install.zsh/_zi::compile-plugin
|-- zinit-install.zsh/_zi::compinit
|-- zinit-install.zsh/_zi::forget-completion
`-- zinit-install.zsh/_zi::install-completions
```

Not called by script or any function (may be e.g. a hook, a Zle widget, etc.).

add-zsh-hook

```
Add to HOOK the given FUNCTION.
HOOK is one of chpwd, precmd, preexec, periodic, zshaddhistory,
zshexit, zsh_directory_name (the _functions subscript is not required).
```

```
With -d, remove the function from the hook instead; delete the hook
variable if it is empty.
```

```
-D behaves like -d, but pattern characters are active in the
function name, so any matching function will be deleted from the hook.
```

Has 93 line(s). Doesn't call other functions.

Uses feature(s): *autoload*, *getopts*

Called by:

```
@zi::scheduler
Script-Body
```

compinit

> Initialisation for new style completion. This mainly contains some helper
> functions and setup. Everything else is split into different files that
> will automatically be made autoloaded (see the end of this file). The
> names of the files that will be considered for autoloading are those that
> begin with an underscores (like `_condition).

> The first line of each of these files is read and must indicate what
> should be done with its contents:

> `#compdef <names ...>'

Has 573 line(s). Doesn't call other functions.

Uses feature(s): *autoload*, *bindkey*, *compdef*, *compdump*, *eval*, *read*, *setopt*, *unfunction*, *zle*, *zstyle*

Called by:

```
zicompinit
zinit
zpcompinit
```

is-at-least

> Test whether $ZSH_VERSION (or some value of your choice, if a second argument
> is provided) is greater than or equal to x.y.z-r (in argument one). In fact,
> it'll accept any dot/dash-separated string of numbers as its second argument
> and compare it to the dot/dash-separated first argument. Leading non-number
> parts of a segment (such as the "zefram" in 3.1.2-zefram4) are not considered
> when the comparison is done; only the numbers matter. Any left-out segments
> in the first argument that are present in the version string compared are
> considered as zeroes, eg 3 == 3.0 == 3.0.0 == 3.0.0.0 and so on.

Has 56 line(s). Doesn't call other functions.

Called by:

```
:zi::tmp-subst-autoload
:zi::tmp-subst-bindkey
Script-Body
zinit-install.zsh/_zi::download-snippet
```