

zinit.zsh(1)

NAME

zinit.zsh - a shell script

SYNOPSIS

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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
pmodload
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
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
```

```

|-- add-zsh-hook
|-- is-at-least
|-- zi::get-mtime-into
|-- zi::prepare-home
|   |-- zinit-autoload.zsh/zi::clear-completions
|   `-- zinit-install.zsh/zi::compinit
|-- zinit
|   |-- +zi::message
|   |-- +zi::prehelp-usage-message
|   |   `-- +zi::message
|   |-- compinit
|   |-- 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
|   |   |   |   |-- is-at-least
|   |   |   |   |-- zi::add-report
|   |   |   |   `-- zi::any-to-user-plugin
|   |   |   |-- 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
|-- 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* // *ZPFX* // *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). Doesn't 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). Doesn't 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). Doesn't 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). Doesn't 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  
|-- is-at-least  
|-- zi::add-report  
'-- zi::any-to-user-plugin
```

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  
|-- is-at-least  
'-- zi::add-report
```

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
    |-- is-at-least
    |-- zi::add-report
    '-- zi::any-to-user-plugin
```

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't 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. There's 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
|-- add-zsh-hook
`-- zi::run-task
    |-- zi::load
    |   |-- +zi::deploy-message
    |   |-- zi::any-to-user-plugin
    |   |-- zi::load-plugin
    |   |   |-- :zi::tmp-subst-autoload
    |   |   |   |-- +zi::message
    |   |   |   |-- is-at-least
    |   |   |   |-- zi::add-report
    |   |   `-- zi::any-to-user-plugin
```

```

|-- 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): *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.).

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.).

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't 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). Doesn't 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). Doesn't call other functions.

Called by:

```
zi::formatter-bar  
zi::formatter-th-bar
```

zi::formatter-dbg

Has 5 line(s). Doesn't 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). Doesn't call other functions.

Called by:

```
zi::formatter-auto
```

zi::get-mtime-into

Has 7 line(s). Doesn't 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). Doesn't 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
|   |   |-- is-at-least
|   |   |-- zi::add-report
|   |   `-- zi::any-to-user-plugin
|   |-- 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
|   |   |   |-- is-at-least
|   |   |   |-- zi::add-report
|   |   |   `-- zi::any-to-user-plugin
|   |   |-- 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
|   |-- is-at-least
|   |-- zi::add-report
|   `-- zi::any-to-user-plugin
|-- 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:

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

zi::main-message-formatter

Has 18 line(s). Doesn't 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). Doesn't 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). Doesn't 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
|   |   |   |-- is-at-least
|   |   |   |-- zi::add-report
|   |   |   `-- zi::any-to-user-plugin
|   |   |-- 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). Doesn't 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 snippet 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). Doesn't 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: ZPFEX

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 function of an undefined use case.

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.).

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
|-- compinit
|-- 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
|   |-- is-at-least
|   |-- zi::add-report
|   |-- zi::any-to-user-plugin
|   |-- 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
|-- 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.).

zpcmpdef

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.).

zpcmpinit

Has 2 line(s). Calls functions:

```
zpcmpinit
`-- 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
   |-- compinit
   |-- 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
|   |   |   |   |-- is-at-least
|   |   |   |   |-- zi::add-report
|   |   |   |   '-- zi::any-to-user-plugin
|   |   |   |-- 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
|-- 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 underscore (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:

```
zicompile  
zinit  
zpcompile
```

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
```