

zi.zsh(1)

NAME

zi.zsh - a shell script

SYNOPSIS

Documentation automatically generated with `zsdoc`

FUNCTIONS

```
+zi-deploy-message
+zi-message
+zi-prehelp-usage-message
-zi_scheduler_add_sh
.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
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.zi-diff-options
.zi-diff-parameter
.zi-find-other-matches
.zi-formatter-bar
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.zi-get-mtime-into
.zi-get-object-path
.zi-ice
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.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
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.zi-tmp-subst-off
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.zi-util-shands-path
:zi-reload-and-run
:zi-tmp-subst-alias
:zi-tmp-subst-autoload
:zi-tmp-subst-bindkey
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:zi-tmp-subst-zle
:zi-tmp-subst-zstyle
@autoload
@zi-register-annex
@zi-register-hook
@zi-substitute
@zsh-plugin-run-on-unload
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pmodload
zi
zi-turbo
zicdclear
zicdreplay
zicompdef
zicompinit
zpcdclear
zpcdreplay
zpcompdef
zpcompinit
AUTOLOAD add-zsh-hook
AUTOLOAD compinit
AUTOLOAD is-at-least
PRECMD-HOOK @zi-scheduler
```

DETAILS

Script Body

Has 202 line(s). Calls functions:

```
Script-Body
|-- +zi-message
|-- @zi-register-hook
|-- add-zsh-hook
|-- autoload.zsh/.zi-module
`-- is-at-least
```

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

Exports (environment): *PMSPEC // ZPFX // ZSH_CACHE_DIR*

+zi-deploy-message

```
FUNCTION: +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
autoload.zsh/.zi-recall
```

+zi-message

```
FUNCTION: +zi-message. [[[
```

Has 14 line(s). Doesn't call other functions.

Called by:

```

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

```

+zi-prehelp-usage-message

FUNCTION: +zi-prehelp-usage-message. [[[

Has 34 line(s). Calls functions:

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

Called by:

```
zi
autoload.zsh/.zi-delete
```

-zi_scheduler_add_sh

FUNCTION: -zi_scheduler_add_sh. [[
Copies task into ZI_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-add-fpath

~~~~~

FUNCTION: .zi-add-fpath. [[

Has 10 line(s). Calls functions:

```
.zi-add-fpath
```

Called by:

```
zi
```

*zi-add-report*

~~~~~

```
FUNCTION: .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-load-plugin  
.zi-load-snippet  
: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-any-to-pid

~~~~~

```
FUNCTION: .zi-any-to-pid. []
```

Has 21 line(s). Calls functions:

```
.zi-any-to-pid
```

Uses feature(s): *setopt*

Called by:

```
side.zsh/.zi-any-colorify-as-uspl2  
side.zsh/.zi-exists-physically-message  
side.zsh/.zi-first
```

*zi-any-to-user-plugin*

~~~~~

FUNCTION: .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)

Returns user and plugin in \$reply.

Has 25 line(s). Doesn't call other functions.

Uses feature(s): *setopt*

Called by:

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

Environment variables used: ZPFX

zi-compdef-clear

~~~~~

FUNCTION: `.zi-compdef-clear`. `[[[`  
Implements user-exposed functionality to clear gathered compdefs.

Has 3 line(s). Calls functions:

```
.zi-compdef-clear  
'-- +zi-message
```

Called by:

```
zi  
zicdclear  
zpcdclear
```

### *zi-compdef-replay*

~~~~~

FUNCTION: `.zi-compdef-replay`. `[[[`
Runs gathered compdef calls. This allows to run 'compinit' after loading plugins.

Has 16 line(s). Calls functions:

```
.zi-compdef-replay  
'-- +zi-message
```

Uses feature(s): *compdef*

Called by:

```
zi  
zicdreplay  
zpcdreplay
```

zi-diff

~~~

FUNCTION: `.zi-diff`. `[[[`  
Performs diff actions of all types

Has 4 line(s). Calls functions:



```
.zi-diff
```

Called by:

```
.zi-load-plugin  
additional.zsh/.zi-debug-start  
additional.zsh/.zi-debug-stop
```

*zi-diff-env*

~~~~~

```
FUNCTION: .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 15 line(s). Doesn't call other functions.

Called by:

```
.zi-diff  
.zi-load-plugin
```

zi-diff-functions

~~~~~

```
FUNCTION: .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 3 line(s). Doesn't call other functions.

Called by:

```
.zi-diff
```

*zi-diff-options*

~~~~~

FUNCTION: `.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 2 line(s). Doesn't call other functions.

Called by:

`.zi-diff`

zi-diff-parameter

~~~~~

FUNCTION: `.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 7 line(s). Doesn't call other functions.

Called by:

`.zi-diff`

### *zi-find-other-matches*

~~~~~

FUNCTION: `.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 17 line(s). Doesn't call other functions.

Called by:

```
.zi-load-plugin
.zi-load-snippet
side.zsh/.zi-first
```

zi-formatter-bar

~~~~~

```
FUNCTION: .zi-formatter-bar. [[[
```

Has 1 line(s). Calls functions:

```
.zi-formatter-bar
```

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

### *zi-formatter-bar-util*

~~~~~

```
FUNCTION: .zi-formatter-bar-util. [[[
```

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

Called by:

```
.zi-formatter-bar
.zi-formatter-th-bar
```

zi-formatter-pid

~~~~~

```
FUNCTION: .zi-formatter-pid. [[[
```

Has 10 line(s). Calls functions:

```
.zi-formatter-pid
`-- side.zsh/.zi-any-colorify-as-uspl2
```

Uses feature(s): *source*

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

## *zi-formatter-th-bar*

~~~~~

```
FUNCTION: .zi-formatter-th-bar. [[[
```

Has 1 line(s). Calls functions:

```
.zi-formatter-th-bar
```

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

zi-formatter-url

~~~~~

```
FUNCTION: .zi-formatter-url. [[[
```

Has 19 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-get-mtime-into*

~~~~~

```
FUNCTION: .zi-get-mtime-into. [[[
```

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

Called by:

```
Script-Body  
autoload.zsh/.zi-self-update  
autoload.zsh/.zi-update-or-status-all
```

zi-get-object-path

~~~~~

```
FUNCTION: .zi-get-object-path. [[[
```

Has 23 line(s). Calls functions:

```
.zi-get-object-path
```

Called by:

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

*zi-ice*

~~~

```
FUNCTION: .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 12 line(s). Doesn't call other functions.

Uses feature(s): *setopt*

Called by:

```
zi
```

Environment variables used: ZPFX

zi-load

~~~

```
FUNCTION: .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 76 line(s). Calls functions:

```
.zi-load
|-- +zi-deploy-message
|-- install.zsh/.zi-get-package
`-- install.zsh/.zi-setup-plugin-dir
```

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

Called by:

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

*zi-load-ices*

~~~~~

```
FUNCTION: .zi-load-ices. [[[
```

Has 22 line(s). Calls functions:

```
.zi-load-ices
```

Called by:

```
zi
```

Environment variables used: ZPFX

zi-load-object

~~~~~

```
FUNCTION: .zi-load-object. [[[
```

Has 10 line(s). Calls functions:

```
.zi-load-object
```

Called by:

```
zi
```

## zi-load-plugin

~~~~~

FUNCTION: .zi-load-plugin. [[[
Lower-level function for loading a plugin.

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

Has 107 line(s). Calls functions:

```
.zi-load-plugin  
'-- :zi-tmp-subst-autoload  
    |-- +zi-message  
    '-- is-at-least
```

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

Called by:

```
.zi-load
```

zi-load-snippet

~~~~~

FUNCTION: .zi-load-snippet. [[[  
Implements the exposed-to-user action of loading a snippet.

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

Has 173 line(s). Calls functions:

```
.zi-load-snippet  
|-- +zi-deploy-message  
|-- +zi-message  
'-- 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
additional.zsh/.zi-service
```

### *zi-main-message-formatter*

~~~~~

```
FUNCTION: +zi-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

~~~~~

```
FUNCTION: .zi-pack-ice. [[
Remembers all ice-mods, assigns them to concrete plugin. Ice spec is in general
forgotten for
second-next command (that's why it's called "ice" - it melts), however they glue
to the object (plugin
or snippet) mentioned in the next command  for later use with e.g. `zi update
...`.
```

Has 3 line(s). Doesn't call other functions.

Called by:

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

### *zi-parse-opts*

~~~~~

```
]]
FUNCTION: +zi-parse-opts. [[
```

Has 2 line(s). Doesn't call other functions.

Called by:

```
zi
autoload.zsh/.zi-delete
```

zi-prepare-home

~~~~~

```
FUNCTION: .zi-prepare-home. [[
Creates all directories needed by ZI, first checks if they already exist.
```

Has 38 line(s). Calls functions:

```
.zi-prepare-home
|-- autoload.zsh/.zi-clear-completions
`-- install.zsh/.zi-compinit
```

Uses feature(s): *source*

Called by:

```
Script-Body
```

*Environment variables used: ZPFX*

*zi-register-plugin*

~~~~~

```
FUNCTION: .zi-register-plugin. [[
Adds the plugin to ZI_REGISTERED_PLUGINS array and to the
zsh_loaded_plugins array (managed according to the plugin standard:
https://github.com/z-shell/zi/wiki/Zsh-Plugin-Standard).
```

Has 20 line(s). Calls functions:

```
.zi-register-plugin
`-- +zi-message
```

Called by:

```
.zi-load
```

zi-run

~~~~~

```
FUNCTION: .zi-run. [[[
Run code inside plugin's folder
It uses the 'correct' parameter from upper's scope zi().
```

Has 24 line(s). Calls functions:

```
.zi-run
'-- +zi-message
```

Uses feature(s): *eval, setopt*

Called by:

```
zi
```

## zi-run-task

~~~~~

```
FUNCTION: .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 - the pass number, either 1st or 2nd pass
$2 - the time assigned to the task
$3 - type: plugin, snippet, service plugin, service snippet
$4 - task's index in the ZI[WAIT_ICE_...] fields
$5 - mode: load or light
$6 - the plugin-spec or snippet URL or alias name (from id-as'')
```

Has 45 line(s). Calls functions:

```
.zi-run-task
'-- autoload.zsh/.zi-unload
```

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

Called by:

@zi-scheduler

zi-set-m-func

~~~~~

```
FUNCTION: .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
autoload.zsh/.zi-update-or-status
```

*zi-setup-params*

~~~~~

```
FUNCTION: .zi-setup-params. [[[
```

Has 3 line(s). Doesn't call other functions.

Called by:

```
.zi-load-snippet
.zi-load
```

zi-submit-turbo

~~~~~

```

FUNCTION: .zi-submit-turbo. [[[
If `zi load`, `zi light` or `zi 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, so that
@zi-scheduler can run (load, unload) this as a task.

```

Has 16 line(s). Doesn't call other functions.

Called by:

zi

*zi-tmp-subst-off*

~~~~~

```

FUNCTION: .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 17 line(s). Doesn't call other functions.

Uses feature(s): *setopt, unfunction*

Called by:

.zi-load-plugin
additional.zsh/.zi-debug-stop

zi-tmp-subst-on

~~~~~

```

FUNCTION: .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 29 line(s). Doesn't call other functions.

Uses feature(s): *source*

Called by:

```
.zi-load-plugin  
additional.zsh/.zi-debug-start
```

*zi-util-shands-path*

~~~~~

```
FUNCTION: .zi-util-shands-path. [[  
Replaces parts of path with %HOME, etc.
```

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

Uses feature(s): *setopt*

Called by:

```
.zi-any-to-pid
```

Environment variables used: ZPFX

:zi-reload-and-run

```
FUNCTION: :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".

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

Author: Bart Schaefer

Has 9 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: :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 30 line(s). Calls functions:

```
:zi-tmp-subst-alias
```

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

FUNCTION: :zi-tmp-subst-autoload. []
Function defined to hijack plugin's calls to the 'autoload' builtin.

The hijacking is not only to gather report data, but also to.
run custom 'autoload' function, that doesn't need FPATH.

Has 106 line(s). Calls functions:

```
:zi-tmp-subst-autoload  
|-- +zi-message  
'-- is-at-least
```

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

Called by:

```
.zi-load-plugin  
@autoload
```

:zi-tmp-subst-bindkey

FUNCTION: :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 107 line(s). Calls functions:

```
:zi-tmp-subst-bindkey  
'-- 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: :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 5 line(s). Calls functions:

```
:zi-tmp-subst-compdef
```

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: :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 33 line(s). Calls functions:

```
:zi-tmp-subst-zle
```

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: :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 19 line(s). Calls functions:

```
:zi-tmp-subst-zstyle
```

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

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

@autoload

```
]]]  
FUNCTION: @autoload. [[[
```

Has 3 line(s). Calls functions:

```
@autoload  
'-- :zi-tmp-subst-autoload  
  |-- +zi-message  
  '-- is-at-least
```

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

@zi-register-annex

```
FUNCTION: @zi-register-annex. [[[  
Registers the z-annex inside ZI □ i.e. an ZI extension
```


Has 8 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-register-hook

```
FUNCTION: @zi-register-hook. [[[
Registers the z-annex inside ZI - i.e. an ZI extension
```

Has 4 line(s). Doesn't call other functions.

Called by:

```
Script-Body
```

@zi-scheduler

```
FUNCTION: @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 74 line(s). **Is a precmd hook.** Calls functions:

```
@zi-scheduler
'-- 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

```
FUNCTION: @zi-substitute. [[[
```

Has 36 line(s). Doesn't call other functions.

Uses feature(s): *setopt*

Called by:

```
autoload.zsh/.zi-at-eval
install.zsh/.zi-at-eval
install.zsh/.zi-get-package
install.zsh/zi-atclone-hook
install.zsh/zi-cp-hook
install.zsh/zi-extract-hook
install.zsh/zi-make-e-hook
install.zsh/zi-make-ee-hook
install.zsh/zi-make-hook
install.zsh/zi-mv-hook
```

Environment variables used: ZPFX

@zsh-plugin-run-on-unload

```
FUNCTION: @zsh-plugin-run-on-update. [[[
The Plugin Standard required mechanism, see:
https://github.com/z-shell/zi/wiki/Zsh-Plugin-Standard
```

Has 2 line(s). Calls functions:

```
@zsh-plugin-run-on-unload
```

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

@zsh-plugin-run-on-update

```
FUNCTION: @zsh-plugin-run-on-update. [[[
The Plugin Standard required mechanism
```

Has 2 line(s). Calls functions:

```
@zsh-plugin-run-on-update
```

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

pmodload

```
FUNCTION: pmodload. [[  
Compatibility with Prezto. Calls can be recursive.
```

Has 15 line(s). Calls functions:

```
pmodload
```

Uses feature(s): *zstyle*

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

zi

```
FUNCTION: zi. [[  
Main function directly exposed to user, obtains subcommand and its arguments, has  
completion.
```

Has 547 line(s). Calls functions:

```

zi
|-- +zi-message
|-- +zi-prehelp-usage-message
|   '-- +zi-message
|-- additional.zsh/.zi-clear-debug-report
|-- additional.zsh/.zi-debug-start
|-- additional.zsh/.zi-debug-stop
|-- additional.zsh/.zi-debug-unload
|-- autoload.zsh/.zi-analytics-menu
|-- autoload.zsh/.zi-cdisable
|-- autoload.zsh/.zi-cenable
|-- autoload.zsh/.zi-clear-completions
|-- autoload.zsh/.zi-compile-uncompile-all
|-- autoload.zsh/.zi-compiled
|-- autoload.zsh/.zi-control-menu
|-- autoload.zsh/.zi-help
|-- autoload.zsh/.zi-list-bindkeys
|-- autoload.zsh/.zi-list-compdef-replay
|-- autoload.zsh/.zi-ls
|-- autoload.zsh/.zi-module
|-- autoload.zsh/.zi-recently
|-- autoload.zsh/.zi-search-completions
|-- autoload.zsh/.zi-self-update
|-- autoload.zsh/.zi-show-all-reports
|-- autoload.zsh/.zi-show-completions
|-- autoload.zsh/.zi-show-debug-report
|-- autoload.zsh/.zi-show-registered-plugins
|-- autoload.zsh/.zi-show-report
|-- autoload.zsh/.zi-show-times
|-- autoload.zsh/.zi-show-zstatus
|-- autoload.zsh/.zi-uncompile-plugin
|-- autoload.zsh/.zi-uninstall-completions
|-- autoload.zsh/.zi-unload
|-- autoload.zsh/.zi-update-or-status
|-- autoload.zsh/.zi-update-or-status-all
|-- compinit
|-- install.zsh/.zi-compile-plugin
|-- install.zsh/.zi-compinit
|-- install.zsh/.zi-forget-completion
'-- install.zsh/.zi-install-completions

```

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

Called by:

```
zi-turbo
```

zi-turbo

FUNCTION: zi-turbo. [[[

With zi-turbo first argument is a wait time and suffix, i.e. "0a".

Anything that doesn't match will be passed as if it were an ice mod.

Default ices depth'3' and lucid, allowed values [0-9][a-d].

Has 1 line(s). Calls functions:

```

zi-turbo
`-- zi
    |-- +zi-message
    |-- +zi-prehelp-usage-message
    |   `-- +zi-message
    |-- additional.zsh/.zi-clear-debug-report
    |-- additional.zsh/.zi-debug-start
    |-- additional.zsh/.zi-debug-stop
    |-- additional.zsh/.zi-debug-unload
    |-- autoload.zsh/.zi-analytics-menu
    |-- autoload.zsh/.zi-cdisable
    |-- autoload.zsh/.zi-cenable
    |-- autoload.zsh/.zi-clear-completions
    |-- autoload.zsh/.zi-compile-uncompile-all
    |-- autoload.zsh/.zi-compiled
    |-- autoload.zsh/.zi-control-menu
    |-- autoload.zsh/.zi-help
    |-- autoload.zsh/.zi-list-bindkeys
    |-- autoload.zsh/.zi-list-compdef-replay
    |-- autoload.zsh/.zi-ls
    |-- autoload.zsh/.zi-module
    |-- autoload.zsh/.zi-recently
    |-- autoload.zsh/.zi-search-completions
    |-- autoload.zsh/.zi-self-update
    |-- autoload.zsh/.zi-show-all-reports
    |-- autoload.zsh/.zi-show-completions
    |-- autoload.zsh/.zi-show-debug-report
    |-- autoload.zsh/.zi-show-registered-plugins
    |-- autoload.zsh/.zi-show-report
    |-- autoload.zsh/.zi-show-times
    |-- autoload.zsh/.zi-show-zstatus
    |-- autoload.zsh/.zi-uncompile-plugin
    |-- autoload.zsh/.zi-uninstall-completions
    |-- autoload.zsh/.zi-unload
    |-- autoload.zsh/.zi-update-or-status
    |-- autoload.zsh/.zi-update-or-status-all
    |-- compinit
    |-- install.zsh/.zi-compile-plugin
    |-- install.zsh/.zi-compinit
    |-- install.zsh/.zi-forget-completion
    `-- install.zsh/.zi-install-completions

```

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

zicdclear

```
]]]
FUNCTION: zicdclear. [[[
A wrapper for 'zi cdclear -q' which can be called from hook ices like the
atinit'', atload'', etc. ices.
```

Has 1 line(s). Calls functions:

zicdclear

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

zicdreplay

```
FUNCTION: zicdreplay. [[[
A function that can be invoked from within 'atinit', 'atload', etc. ice-mod.
It works like 'zi cdreplay', which cannot be invoked from such hook ices.
```

Has 1 line(s). Calls functions:

zicdreplay

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

zicompdef

```
]]]
FUNCTION: zicompdef. [[[
Stores compdef for a replay with 'zicdreplay' (turbo mode) or with 'zi cdreplay'
(normal mode). An utility functton 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

```
]]]
FUNCTION: zicompinit. [[[
A function that can be invoked from within 'atinit', 'atload', etc. ice-mod.
It runs 'autoload compinit; compinit' and respects
ZI[ZCOMPDUMP_PATH] and ZI[COMPINIT_OPTS].
```

Has 1 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.).

zpcdclear

Has 1 line(s). Calls functions:

```
zpcdclear
```

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

zpcdreplay

```
]]]  
Compatibility functions. [[[  
zinit() { zi "$@"; }
```

Has 1 line(s). Calls functions:

```
zpcdreplay
```

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.).

zpcompinit

Has 1 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.).

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 549 line(s). Doesn't call other functions.

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

Called by:

```
zi  
zcompinit  
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
```