Systemnahe Programmierung SS24

Funktionen aus libconfig

https://hyperrealm.github.io/libconfig/libconfig_manual.html

The boolean values `CONFIG_TRUE` and `CONFIG_FALSE` are macros defined as `(1)` and `(0)`, respectively.

Function: *void* **config_init** *(config_t * config)*

Function: *void* **config_destroy** *(config_t * config)*

These functions initialize and destroy the configuration object config.

`config_init()` initializes the *config_t* structure pointed to by config as a new, empty configuration.

`config_destroy()` destroys the configuration config, deallocating all memory associated with the configuration, but does not attempt to deallocate the *config_t* structure itself.

Function: *int* **config_read_file** *(config_t * config, const char * filename)*

This function reads and parses a configuration from the file named filename into the configuration object config. It returns `CONFIG_TRUE` on success, or `CONFIG_FALSE` on failure; the `config_error_text()` and `config_error_line()` functions, described below, can be used to obtain information about the error.

Function: *int* **config_lookup_int** *(const config_t * config, const char * path, int * value)*

Function: *int* **config_lookup_int64** *(const config_t * config, const char * path, long long * value)*

Function: *int* **config_lookup_float** *(const config_t * config, const char * path, double * value)*

Function: *int* **config_lookup_bool** *(const config_t * config, const char * path, int * value)*

Function: *int* **config_lookup_string** *(const config_t * config, const char * path, const char ** value)*

These functions look up the value of the setting in the configuration config specified by the path path. They store the value of the setting at value and return `CONFIG_TRUE` on success. If the setting was not found or if the type of the value did not match the type requested, they leave the data pointed to by value unmodified and return `CONFIG_FALSE`.

Storage for the string returned by `config_lookup_string()` is managed by the library and released automatically when the setting is destroyed or when the setting's value is changed; the string must not be freed by the caller.