Libkronos Documentation

Libkronos is a wrapper around log4c for providing easy to use logging mechanism. Libkronos is an open source library licensed under LGPL version 3, this means you could use this any of your project with or without any modification.

Special Files

The libkronos uses two special files for its logging mechanism.

1. kronos.conf

   This file is used by the libkronos. This file contains list of modules you are going to use in the whole project along with the required log levels. The log levels specified in this file will only be printed.

2. log4crc

   log4crc is the configuration file used by log4c, this is where you specify the file to which the logs have to be written. This file should be present in the path specified in LOG4CRC_PATH env variable or in the location from where you are running your application.

How to use libkronos?

Libkronos provide simple and easy to use api for integrating tins library to your project. Before using any of the libray calls you must initialize the libkronos. For initializing call kronos_init(). After initializing you just need to call KRONOS_LOG()

kronos_init()

```
KRONOS_RET    kronos_init      (const char       *config_file)
```

This function initializes the libkronos library. This should be the first function you should call before using any other functions. For this function you should pass the path of the configuration file. If no argument is passed the library will look for the configuration file in "/etc/kronos.conf ".

config_file : Path to the kronos configuration file.
Returns : 0 on success and non-zero on failure;

KRONOS_LOG()

```
void    KRONOS_LOG  (KRONOS_logLevel  level,   const char   * module,   const char   * message, ...)
```

This function is used for writing the logs. The logs will be logged based on the log levels specified in the configuration file (kronos.conf).

level : level of log
module: specify the name of the module
message: The message to be printed with proper format strings

KRONOS_LogLevel

```
typedef enum {
  KRONOS_FATAL , KRONOS_ALERT , KRONOS_CRIT , KRONOS_ERROR , KRONOS_WARNING ,
 KRONOS_NOTICE , KRONOS_INFO , KRONOS_DEBUG, KRONOS_TRACE , KRONOS_LAST_LOG = 9
} KRONOS_logLevel;
```

Possible log levels that could be used in your program.