Adrien Forest
fjxokt@gmail.com
Christophe Carasco
carasco.christophe@gmail.com
Matthieu Maury
mayeu.tik@gmail.com



Operating System Project 10hp

SSIK : Simply & Stupidly Implemented Kernel Project Convention

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1. Project

The project name, **SSIK**, standing for: "Simply & Stupidly Implemented Kernel", is the reversed acronym of **KISS**. **KISS** is an acronym for the design principle "keep it simple and stupid".

With this project we will try to follow this as a main rule.

1.1 Folder hierarchie

root |- bin/

```
|- build/
|- doc/
|- include/
I- Makefile
- README
|- report/
|- scripts/
I- src/
   |- kernel/
   |- user/
   Description of all the folder:
bin contain the final binarie
build contain the object file
include contain the API and system library header file
Makefile the project Makefile. Support many option, see further
README captain obvious prevent me to explain this
report contain project report, such as this document
scripts script folder, mainly for simisc
```

1.2 Makefile

The make file propose this option:

src/kernel contain the code of the kernel

src/user contain the code of all the user software

all build everything

clean clean every build

indent indent all the source with the indent software

kernel only compile the kernel part. But don't link anything

user only compile the user part without the system library. But don't link anything

run build everything and run the system in simisc

2. Coding convention

2.1 Code formating

We follow the GNU coding conventions (http://www.gnu.org/prep/standards/standards.html#Writing-C) with this modification:

- the block bracket inside a functions should not be indented (-bli0 in indent)
- no space between a function name and the parenthesis (-npcs in indent)
- comment at the right of the code should be aligned (-c33 in indent)
- name of variable in declaration should be aligned on a column (-di16 in indent)

The makefile provide an indent option to easily indent everything.

2.2 Comment formating

2.2.1 General information

- comment starting by /** will be indexed, not thos started by /*
- use at least a brief description with **@brief**. To add a long comment, add a white line after the brief comment
- this tag can be used to comment any structures, variables, etc.

2.2.2 File comment

```
/**
 * @file file name
 * @brief Brief description
 *
 * Long description
 */
/* end of file filename.x */
```

2.2.3 Function comment

```
**
* @Brief description which ends at this dot.
*
* Details follow here.
*
* @param a param
* @return the return value
*/
```

3. Good use of git