SEP #4 : Making scilab function *genlib* returns information

Abstract

This SEP proposes to modify Scilab function **genlib**, used to generate a Scilab library from .sci files (macros). The current function does not return any feed-back, whereas this feed-back could be useful. For example for the build system which at present does not fail if an error occurs while building a library.

Rationale

Following information can be interesting (by order of interest):

● success (or failure) of the whole process,
● functions defined in valid files (files successfully parsed defining at least one function).
● valid files (successfully parsed and defining at least one function),
● invalid files.

Note that an invalid file is sufficient for the whole process to fail, but no invalid file does not mean the success of the whole process.

Hence, the proposed new profile for **genlib** is:

```
[success,                      funcs,                  success_files,
failed_files]=genlib(nam,path,force,verbose,names)
```

Input arguments are not changed:

`success` is a boolean (`%t` on success, `%f` on failure) .

`functions` a vector of strings containing the names of functions defined in the library (empty if the process failed).

`success_files` a vector of strings containing the names of valid files.

`failed_files` a vector of strings containing the names of invalid files.

Example Usage

```
success = genlib('atoms')
[success, funcs, success_files, failed_files] = genlib('atoms')
```

Changelog

1.0 — Simon Lipp <simon.lipp@scilab.org> Initial version

1.1 — Sylvestre Ledru <sylvestre.ledru@scilab.org> Mainly typo + changelog + example usage

1.2 — Simon Lipp <simon.lipp@scilab.org>: define " correct files ", add examples

1.3 — Simon Lipp <simon.lipp@scilab.org>: "libname" is unnecessary

1.4 — Simon Lipp <simon.lipp@scilab.org>: add "files_ok" and "files_bad"

1.5 — Simon Lipp <simon.lipp@scilab.org>: better terms

1.6 — Simon Lipp <simon.lipp@scilab.org>: implementation

Implementation

This SEP is implemented in the package_manager branch. Complete file and patch can be found at:

http://viewvc.scilab.org/bin/cgi/viewvc.cgi/branches/package_manager/scilab/modules/functions/macros/genlib.sci?r1=25852&r2=25851&pathrev=25852.

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