NAME

cfun - convert function block description into the database

SYNOPSIS

cfun [-kps] [-C*option*] [-P*option*] infile

OPTIONS

The following options can be specified:

-k Keep the '.p' and '.c' files that are generated by the program (do **not** remove them).

-p The C preprocessor *cpp* will **not** first be run on the input file.

-s The silent mode suppresses messages about the actions taken by *cfun* which are usually printed on the screen.

-C The characters directly after this option are used as option for the C compiler (may be used more than ones).

-P The characters directly after this option are used as option for *cpp* (may be used more than ones).

DESCRIPTION

Cfun can be used to place a description of a function block into the database. As a description of a function block is contained by the database, instances of the function block can be included in a network description and an appropriate *sls* simulator can be generated. The latter is done by running the program *sls_exp*. The description of the function block is stored in the "circuit" view of the database.

Cfun will generate a '.c' file from the input description and it will use the GNU project C compiler *gcc* to translate this file into an object file that can be linked to *sls*. When no options are specified, first the C preprocessor *cpp* will be run on the input file and the intermediate result will be placed in a file with the extension '.p'.

NOTE

The input file may contain only one description of a function block. In addition, it may contain all text that is allowed in a C file. The input file must have an extension.

EXAMPLE

```
% cfun -Cg -PI.. -PDdebug ram.fun
/lib/cpp -I.. -Ddebug ram.fun ram.p
Parsing ram.p ; making ram.c
gcc -g -c ram.c
mv ram.o circuit/ram/linux-2.4-i686_sls.o
```

AUTHOR

O. Hol

FILES

`file.fun`	input file
`file.p`	temporary file
`file.c`	temporary file
`file.o`	object file (to be stored in the database)
`ICDPATH/share/src/sls/func.h`	include file

SEE ALSO

O. Hol, "Functional Simulation User's Manual", Delft University of Technology.
cpp(1), gcc(1), sls(1ICD), sls_exp(1ICD), csls(1ICD).