

NAME

`sls_exp` - network expansion program for `sls`

SYNOPSIS

`sls_exp` [-fgmst] *cell*

OPTIONS

The following options can be specified:

- f** Forces the generation of new binary file(s), independent of the creation date of existing ones.
- g** Use the debug flag when an executable `sls` is generated.
- m** When the monitoring option is given the program will print run time statistics in a file called "`sls_exp.mon`".
- s** Usually the program will print the names of all cells that are expanded and the actions that are taken when an executable `sls` simulator is generated. When the option `-s` is specified these messages will be suppressed.
- t** By specifying this option, from the name-tables in each binary format file that will be generated all names but the terminal names will be removed. During simulation only terminal nodes will be accessible then. However, the advantage is that less memory and disk space is needed. The latter can be useful when very large networks are simulated.

DESCRIPTION

Sls_exp is a program used for expanding networks. The expanded networks are dumped into a binary format file which can be used as input for the program *sls*. *Sls_exp* works upon a network description in the database. The network description in the database can have been made by the program *csls* for example. Normally, the program *sls_exp* is called by the program *sls*.

The full hierarchy of the network specified by *cell* is expanded by *sls_exp*. This means that in a recursive way first binary format files are generated for sub-cells. For each cell a new binary format file is only generated when there was none, or when the current one is older than the network description in the database or than a binary format file of a sub-cell.

When the network contains instances of function blocks, *sls_exp* will generate an executable *sls* simulator. This simulator must be used to simulate the network that was expanded. A new executable simulator is only generated when no appropriate simulator exists or when function block descriptions have modified. The file "`sls.ld_arg`" can be used to define the (additional) flags for linking the simulator.

EXAMPLES

```
% sls_exp latch
```

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FILES

`sls_exp.mon` (opt.) output file
`sls.ld_arg` (opt.) input file
`sls` generated simulator (for networks containing function blocks).
`sls.funlist` file describing the function blocks contained by the `sls` executable.

SEE ALSO

`sls(1ICD)`, `csls(1ICD)`, `cfun(1ICD)`.