

sphinxcompiler

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sphinx.bin

Sphinx.bin installs the Sphinx drivers for the keyboard, TV, and SD card. It also acts as a simple command line shell.

A command line can take any of the following forms:

- `filename arg1 arg2 ... argn`
- `run filename arg1 arg2 ... argn`
- `c filename arg1 arg2 ... argn`
- `cl filename arg1 arg2 ... argn`

The first form loads and executes the file named *filename*. If *filename* ends with ".bin" or ".eep", sphinx.bin will execute the file of that name (if it exists, of course). Otherwise, sphinx.bin will attempt to execute *filename*.bin and, if that fails, *filename*.eep.

The second form, the **run** command, also loads and runs *filename*. The difference between these two forms of command is that the first one leaves the Sphinx device driver cogs running, while the second stops all cogs (it effectively resets the Propeller). Use the first form to execute Sphinx-aware programs; use the **run** command to execute regular programs.

The **c** command compiles *filename*.spn and generates *filename*.sob (assuming no errors). This command runs [lex.bin](#) and [codegen.bin](#), passing any command line arguments to both programs.

The **cl** command compiles and links *filename*.spn, generating *filename*.sob and *filename*.bin (again, assuming no errors). This command runs [lex.bin](#), [codegen.bin](#), and [link.bin](#), passing its command-line arguments to all three programs.

Sphinx.bin should be stored in EEPROM so that the Propeller boots into Sphinx. Sphinx.bin should also exist on the SD card so that Sphinx-aware programs can, once they've finished their work, load and execute sphinx.bin.

Command line arguments

Arguments are stored as strings in a file named "args.d8a". A program launched from Sphinx can read the argument strings from that file.

The first byte of the file is the number of arguments; it is followed by that number of strings, each null-terminated.

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