

# DSX

## General Presentation

DSX stands for Design Space Explorer. It helps the system designer to map a multi-threaded software application on a shared memory multi-processor hardware architecture (MP-SoC) modeled with the SoCLib components.

It supports the hardware software codesign approach, allowing the designer to define successively:

- the software application structure: number of tasks and communication channels
- the hardware architecture: number of processors, number of memory banks, etc.
- the mapping of the software application on the hardware architecture

## More Information

You can obtain more detailed information, and download the code [here](#)