Modules in nesC lets you

Comparmentalize your code for

easier readability and usability.

Your main file code will be cleaner,

and allows for reusability. This document

explains the basic form of a module

and how it works.

Each module has a "job" to do and includes events/commands("tasks") to do it Think of evenes/commands as functions

Main Code

module

modules can work

with other modules!

A "C" file with no Configuration section

module

What does a module look like?

A module is comprised of three files:

A Interface file taskname.nc

A "P" file taskname P.nc

A "c'file tasknameC.nc

In the skeleton code, you can find module files in the "lib" folder]



File Breakdown

Taskname.nc

Acts similarly to a ... hor header file. It holds the names of Commands or events you want module to execute.

ex. in Command Handler.nc

EVENE Void principles ();

ex in Simple Send.nc

interface Simple Send {

interface Simple Send { Command error_t Send (pack_msg, vintlb_t dest);

TasknameP.nc

The "P" file of the module is considered the true "module" file, and is the private component of all these files. Here is where your code implementations are Stored. This file has two sections:



Module tasknameP{

provides interface teskname;

The line provides interface

allows the use of our declared

Commands and events in our "header"taskname.nc

implementation {

Implementation allows you to write out your command and

event code within its breckets

Note: Using Uses interface within the module bracket allows the use of Other interfaces that have been written in your Code

Taskname C.nc

The "C" file is the public face of the module. It allows you to connect your module to your main code (or other modules!). This file has two Sections.



C seems to stand for "Configuration" but I tend to remember it as "Connection" or "Connector"

Configuration Easkname C &

provides interface taskhame;

Implementation {

Components tasknamaP as task;

Configuration is the public component that allows wining to other interfaces. A "C" file With a empry Configuration is a main file that only wires to other "C" files. See Node C.nc

Implementation allows the actual link to Other Componenes, Lelling you use Commands in modules with your main Code and other modules.