

# Welcome to the inFusion FAMIX/MOOSE Exporters

Dear [MOOSE](#) user,

We created 4 command-line tools to simplify your work by allowing you to generate quickly FAMIX models for the Java and C/C++ projects that you need to analyze using [MOOSE](#).

Each of the commands can be run from Windows (using the \*.bat scripts) or from Unix/Mac (using the \*.sh scripts).

Here is how to use them...

## I. Creating FAMIX Models from Java Source-Code

```
java2mse <project_folder> <famix_version> <output_mse_file>
```

**Description:** Starting from one project folder (containing Java sources), this command creates a MSE file with the FAMIX (2.1 or 3.0) model extracted for that project

**Parameters:** There are 3 parameters, all mandatory:

<b>&lt;project_folder&gt;</b>	The root folder of a Java project (at least the root folder for all Java sources)
<b>&lt;famix_version&gt;</b>	One of the 2 strings: "famix21" or "famix30" (without the quotation marks!)
<b>&lt;output_mse_file&gt;</b>	The name of the output MSE file (including the .mse extension) where the FAMIX model will be written.

**Remark:** While it is not required, if **<project\_folder>** contains all (or most of the) libraries (JARs) used from the project's source code the accuracy of the model will be increased.

```
mjava2mse <project_family_folder> <famix_version>
```

**Description:** Starting from one folder, which contains a set of *projects* (each subfolder being the root folder of project), creates a MSE file with the FAMIX (2.1 or 3.0) model, for *each* of the projects.

**Parameters:** There are 2 parameters, all mandatory:

<b>&lt;project_family_folder&gt;</b>	The folder that contains a number of subfolder, one for each project to be analyzed.
<b>&lt;famix_version&gt;</b>	One of the 2 strings: "famix21" or "famix30" (without the quotation marks!)

**Remark:** The MSE file will be stored in the **<project\_family\_folder>**, each filename being composed from the name of subfolder (corresponding to the project) plus the FAMIX version ("famix21" or "famix30") string plus the ".mse" extension.

## 2. Creating FAMIX Models from C/C++ Source-Code

The two command-lines tools presented below don't take as an input directly the source-code from C/C++ projects; instead, they operate on a set of tables generated by **mcc**, which is a fact extractor that parses C/C++ code and extracts a design model.

Let's see first how to use **mcc**...

```
mcc <c_cpp_project_folder> <output_folder> [<configuration_file>]
```

**Description:** Starting from one project folder (containing C/C++ source code), the tool generates a raw model in form of a set of 12 (correlated) tables containing design information extracted from the source-code

**Parameters:** There are 3 parameters, the first two being mandatory:

<b>&lt;c_cpp_project_folder&gt;</b>	The root folder of a C/C++ project (at least the root folder for all C/C++ sources in the project).
<b>&lt;output_folder&gt;</b>	The folder where mcc stores the set of 12 tables that contain the extracted model.
<b>[&lt;configuration_file&gt;]</b>  (optionally)	You can specify a configuration_file (one of the files in ./tools/mcc/env_c) that contains special instructions for the parser on how to deal with special C++ constructs (e.g. macros) which might differ between various C++ dialects.

```
cpp2mse <mcc_table_folder> <famix_version> <output_mse_file>
```

**Description:** Starting from one project folder (containing mcc tables, extracted with mcc from C/C++ source code), creates a MSE file with the FAMIX (2.1 or 3.0) model extracted for that project

**Parameters:** There are 3 parameters, all mandatory:

<b>&lt;mcc_table_folder&gt;</b>	The folder containing the 12 tables generated by <b>mcc</b> for a C/C++ project
<b>&lt;famix_version&gt;</b>	One of the 2 strings: "famix21" or "famix30" (without the quotation marks!)
<b>&lt;output_mse_file&gt;</b>	The name of the output MSE file (including the .mse extension) where the FAMIX model will be written.

**mcpp2mse <project\_family\_folder> <famix\_version>**

**Description:** Starting from one folder, which contains a set of *projects* (each subfolder containing the 12 tables generated by mcc), the command creates a MSE file with the FAMIX (2.1 or 3.0) model, for each of the projects.

**Parameters:** There are 2 parameters, all mandatory:

<b>&lt;project_family_folder&gt;</b>	The folder that contains a number of subfolder, one for each project to be analyzed.
<b>&lt;famix_version&gt;</b>	One of the 2 strings: "famix21" or "famix30" (without the quotation marks!)

**Remark:** The MSE file will be stored in the **<project\_family\_folder>**, each filename being composed from the name of subfolder (corresponding to the project) plus the FAMIX version ("famix21" or "famix30") string plus the ".mse" extension.

## One more thing...

These tools are free to use for research, commercial purposes<sup>1</sup> or simply for fun :-)

And they will remain free!

If you can profit in some way from these tools, we would really appreciate if you would acknowledge **intooitus** in your publications for supporting your activities, and/or if you can recommend our tools to your friends.

And of course, please [let us know](#) if you have and problems or wishes...

The **intooitus** team.

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<sup>1</sup> under the specified license conditions.