

# Utilities Reference

for release version 0.2.16

## mu-sys

**Name:** mu-sys - *minimal exec command*  
**Synopsis:** mu-sys [*options...*] [*file...*]

**Options:** 0.0.2  
-l *SRCFILE* load SRCFILE in sequence  
-e *SEXPR* evaluate SEXPR and print result  
-q *SEXPR* evaluate SEXPR quietly  
-c *JSON* environment configuration  
[*file ...*] load source file(s)

## mu-server

**Name:** mu-server - *minimal exec command*  
**Synopsis:** mu-server [*options...*] [*file...*]

**Options:** 0.0.2  
-v print version string and exit  
-l *SRCFILE* load SRCFILE in sequence  
-e *SEXPR* evaluate SEXPR and print result  
-q *SEXPR* evaluate SEXPR quietly  
-c *JSON* environment configuration  
[*file ...*] load source file(s)

## mu-exec

**Name:** mu-exec - *minimal exec command*  
**Synopsis:** mu-exec [*options...*] [*file...*]

**Options:** 0.0.2  
-v print version string and exit  
-l *SRCFILE* load SRCFILE in sequence  
-e *SEXPR* evaluate SEXPR and print result  
-q *SEXPR* evaluate SEXPR quietly  
-c *JSON* environment configuration  
[*file ...*] load source file(s)

## sys-dev

**Name:** sys-dev - system development tool  
**Synopsis:** sys-dev *command* [*options...*]

**Description:** 0.0.20

Usage: mforge 0.0.20 *command* [*option...*]  
command:  
help ; this message  
version ; mforge version  
  
workspace init | env ; manage workspace  
  
bench base | current | report | clean  
[*--ntests=number*] [*--all*] ; benchmark test suite  
  
regression ; regression test suite  
  
symbols reference | crossref | metrics  
[*--namespace=name*] ; symbol reports,  
; namespace defaults  
; to mu  
  
precommit ; fmt and clippy,  
; pre-commit checking  
  
general options:  
--verbose ; verbose operation  
--recipe ; show recipe

## sys-repl

**Name:** sys-repl - *mu system REPL*  
**Synopsis:** sys-repl

**Description:** 0.0.5

*repl* is a generalized command-line listener that can be configured to load and run in any of the *mu* namespaces.

It is intended for debugging and exploration during development.

*repl* has no command-line arguments, it is configured by a *JSON*-format dotfile named *.sys-repl*. If a *.sys-repl* is not found in the current directory, the user's home directory will be searched and if found there will be used. *sys-repl* does not require a *.sys-repl* file.

```
{
  "config": {
    "pages": "2048",
    "gc-mode": "auto"
  },
  "namespace": "mu",
  "load": [ "file" ... ]
}
```

The configuration syntax can specify three options, none of which are required.

The *config* option supplies a *mu* Env configuration specification in *JSON* format, see the *mu-ref* refcard *environment* section for details. If this option is not specified, the *mu* Env will be created with default values.

The *namespace* option supplies the namespace that should be loaded, see the *mu-ref* refcard *namespaces* section for details. If this option is not specified *mu-listener* will load only the *mu* namespace.

The *load* option supplies a list of the source files to be loaded before the REPL runs. Additional symbols may be supplied there.