

# **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 SEXP         evaluate SEXP and print result
-q SEXP         evaluate SEXP 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 SEXP      evaluate SEXP and print result
-q SEXP      evaluate SEXP 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 SEXPRT    evaluate SEXPRT and print result
-q SEXPRT    evaluate SEXPRT 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.