

```
[      0%]      ciaaw_version.f90
[      3%]      ciaaw_version.f90 done.
[      3%]      example.c
[      6%]      example.c done.
[      6%]      M_CLI2.F90
[ 10%]  M_CLI2.F90 done.
[ 10%]  stdlib_system.c
[ 13%]  stdlib_system.c done.
[ 13%]  stdlib_kinds.f90
[ 16%]  stdlib_kinds.f90 done.
[ 16%]  stdlib_system_subprocess.c
[ 20%]  stdlib_system_subprocess.c done.
[ 20%]  stdlib_io_aux.f90
[ 23%]  stdlib_io_aux.f90 done.
[ 23%]  stdlib_optval.f90
[ 26%]  stdlib_optval.f90 done.
[ 26%]  stdlib_ascii.f90
[ 30%]  stdlib_ascii.f90 done.
[ 30%]  ciaaw_common.f90
[ 33%]  ciaaw_common.f90 done.
[ 33%]  stdlib_codata_type.f90
[ 36%]  stdlib_codata_type.f90 done.
[ 36%]  stdlib_string_type.f90
[ 40%]  stdlib_string_type.f90 done.
[ 40%]  ciaaw_types.f90
[ 43%]  ciaaw_types.f90 done.
[ 43%]  stdlib_codata.f90
[ 46%]  stdlib_codata.f90 done.
[ 46%]  stdlib_strings.f90
[ 50%]  stdlib_strings.f90 done.
[ 50%]  ciaaw_saw.f90
[ 53%]  ciaaw_saw.f90 done.
[ 53%]  ciaaw_naw.f90
[ 56%]  ciaaw_naw.f90 done.
[ 56%]  ciaaw_ice.f90
[ 60%]  ciaaw_ice.f90 done.
[ 60%]  stdlib_strings_to_string.f90
[ 63%]  stdlib_strings_to_string.f90 done. [ 63%] stdlib_string_type_constructor
```

```
[ 66%] stdlib_string_type_constructor
      done.

[ 66%] ciaaw_pte.f90
[ 70%] ciaaw_pte.f90 done.

[ 70%] ciaaw_api.f90
[ 73%] ciaaw_api.f90 done.

[ 73%] ciaaw_capi.f90
[ 76%] ciaaw_capi.f90 done.

[ 76%] ciaaw.f90
[ 80%] ciaaw.f90 done.

[ 80%] libciaaw.a
[ 83%] libciaaw.a done.

[ 83%] main.f90
[ 86%] main.f90 done.

[ 86%] example.f90
[ 90%] example.f90 done.

[ 90%] ciaaw
[ 93%] ciaaw done.

[ 93%] example_in_c
[ 96%] example_in_c done.

[ 96%] example_in_f

[100%]
example_in_f done. [100%] Project compiled successfully.
```

## NAME

**ciaaw** - Command line for ciaaw

## SYNOPSIS

**ciaaw** [OPTION...] [ELEMENT...]

## DESCRIPTION

**ciaaw** is a command line interface which provides the atomic weights, the isotopic compositions and the nuclides atomic weights. If no element is provided the full periodic table is displayed.

## OPTIONS

**--saw, -s**

Get the standard atomic weight.

**--ice, -i** Get the isotopic composition.

**--naw, -n**

Get the nuclide atomic weight.

**--mu, -m**

Get the molar masses in g/mol by multiplying the atomic weights by the molar mass constant Mu.

**--colnames, -c**

Show the headers in the outputs.

**--usage, -u**

Show usage text and exit.

**--help, -h**

Show help text and exit.

**--verbose, -V**

Display additional information when available.

**--version, -v**

Show version information and exit.

**NOTES**

You may replace the default options from a file if your first options begin with @file. Initial options will then be read from the "response file" "file.rsp" in the current directory.

If "file" does not exist or cannot be read, then an error occurs and the program stops. Each line of the file is prefixed with "options" and interpreted as a separate argument. The file itself may not contain @file arguments. That is, it is not processed recursively.

For more information on response files see

[https://urbanjost.github.io/M\\_CLI2/set\\_args.3m\\_cli2.html](https://urbanjost.github.io/M_CLI2/set_args.3m_cli2.html)

The basic functionality described here will remain the same, but other features described at the above reference may change.

An example file:

```
# my build options
H C B O Zr Nb --saw --ice --naw --colnames
```

**EXAMPLE**

Minimal example

```
ciaaw
ciaaw H C B O Zr Nb --saw --ice --naw --colnames
ciaaw H C B O Zr Nb -sinc
```

**SEE ALSO**

**ciaaw(3), codata(3)**