

2__Interpret__QASM__semantics

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1 Task 8.2 Open QASM3

1.1 Objective 1 : Interoperate different versions of QASM3 with qiskit

1.1.1 Exporting to QASM 3

- use `dump()` to export to a file
- use `dumps()` to export to a Open QASM3 string

Exporter

- Exporter main class
- includes `-> stdgates.inc`
- `basis_gate` `-> gates` defined in the backend
- `disable_constants`
- `alias_classic_registers`
- `allow_aliasing`
- `indent`
- `experimental`
- `annotation_handlers`

dump

- export circuit to stream

dumps

- export circuit to string

QASM3ExporterError

- raise error during running QASM3 Exporter

ExeperimentalFeatures

1.1.2 Importing from QASM 3

- use `load` to import from file
- use `loads` to import from stream

QASM3ImoportterError

ExperimentalImportInterface

- in Rust
- load_experimental
- loads_experimental