

```
/_w/GQCP/GQCP/gqcp  
/include/Mathematical  
/Optimization/Eigenproblem  
/Davidson/ResidualVectorCalculation.hpp
```

```
graph TD; A["/_w/GQCP/GQCP/gqcp  
/include/Mathematical  
/Optimization/Eigenproblem  
/Davidson/ResidualVectorCalculation.hpp"] <--> B["/_w/GQCP/GQCP/gqcp  
/include/Mathematical  
/Optimization/Eigenproblem  
/Davidson/DavidsonSolver.hpp"]; B <--> C["/_w/GQCP/GQCP/gqcp  
/include/gqcp.hpp"]; C <--> A;
```

A diagram illustrating the relationships between three header files. The top box (grey background) represents `ResidualVectorCalculation.hpp`. The middle box (white background) represents `DavidsonSolver.hpp`. The bottom box (white background) represents `gqcp.hpp`. Blue arrows indicate dependencies: `DavidsonSolver.hpp` depends on `ResidualVectorCalculation.hpp` (straight arrow), `gqcp.hpp` depends on `DavidsonSolver.hpp` (straight arrow), `gqcp.hpp` depends on `ResidualVectorCalculation.hpp` (curved arrow), and `ResidualVectorCalculation.hpp` depends on `gqcp.hpp` (curved arrow).

```
/_w/GQCP/GQCP/gqcp  
/include/Mathematical  
/Optimization/Eigenproblem  
/Davidson/DavidsonSolver.hpp
```

```
/_w/GQCP/GQCP/gqcp  
/include/gqcp.hpp
```