


```

logical, intent(in) :: test
character(*), intent(in), optional :: failmsg
logical, intent(in), optional :: doStop

...
end subroutine assert

...
end module itm_assert

```

Some comments:

- Comments relevant for Doxygen have are started with `!.`
- The documentation for a subroutine or function is placed above it. The first paragraph is used as a short description in overview tables.
- The tags used in the Doxygen documentation blocks are called "special commands". They are started either with `\` or `@`. An exhaustive list can be found here <http://www.stack.nl/~dimitri/doxygen/commands.html>. Some relevant ones are:

- `@author`, `@authors`: Author name of a code section
- `@version`: Version number
- `@warning`: Some warning related to the following code
- `@param`: Documentation of on or more parameters. Documentation for parameters can also be placed right next to them:

```

subroutine assert( test, failmsg, doStop )
  logical, intent(in) :: test !> The logical expression to test.
  ...

```

- `@bug`
- `@deprecated`
- `@details`
- `@param`
- `@return` Documents a result for a subroutine
- `@see` Refers the reader to another entity, e.g. a subroutine
- `@todo`
- `@warning`

Some more comments:

- "in-body" comments (comments starting with `!. in the body of the routine) don't seem to work for Fortran (they are falsely included in the documentation of the following routine)`

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