

# TOPO: Quick Reference GLAD — version 3R6

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## **Abstract**

TOPO is a set of interoperating LOTOS tools grouped in several packages. This one contains a tool, called *glad*, that allows *external* annotation of LOTOS data types, i.e. an annotation *template* can be provided to be joined together with the LOTOS *specification*.

This paper is a quick reference guide for users.

## 1 Getting Started . . .

TOPO is a set of interoperating LOTOS tools grouped in several packages. This one includes the tool called *glad*. It allows the user can write annotation *templates* to be combined later with the LOTOS *specification*.

But for working properly, this package must be together with TOPO Front-End package.

## 2 Calling GLAD

For calling *glad*, it is used the same interface as TOPO Front-End package. For a LOTOS *specification*, only one GLAD *template* can be provided, so TOPO must be instructed as follows.

```
toposet spec[.lot] -glad tplt.gld
```

Where `tplt.gld` is the file with the GLAD *template*.

And it can be reset to use no GLAD *template*.

```
toposet spec[.lot] -noglad
```

Options may be specified by means of the environment variable `TOPOF_GLAD`.

setenv TOPOF_GLAD "options"	
-s	Symbolic, nothing is external. It strips all non-symbolic annotations.
-pfile	Pretty-prints results into file. Mainly for debugging purposes. It dumps a GLAD <i>template</i> including the whole data types in LOTOS <i>specification</i> , with their annotations after applying GLAD <i>template</i> . The data types are flattened, i.e. nothing is formal or parametrized, and renamings and actualizations are expanded.
-f	Uses flattened results to pretty-print. Some of the annotations have similar meanings or they are defaults, so GLAD <i>flats</i> the whole set of annotations reducing it into a simpler one.
-l	Adds source lines to pretty-printing (inside comments).

There are also some useful GLAD *templates* in TOPOSTDLIB directory.

toposet spec[.lot] -glad \$TOPOSTDLIB/tplt.gld	
internal	Use internal names for operations. It is the default.
lexical	Use lexical names for operations. Useful for debugging.