

Readme

This directory contains the 5.7 version of Library Exchange Format (LEF) and Design Exchange Format (DEF). LEF and DEF are distributed free of charge. See the [License.txt](#) file in the LEF and DEF modules for conditions attached to the use of this software, and the copying or distribution of it.

The Make programs for some systems may not be able to process the Makefile for the LEF/DEF utilities. If your system's native Make program returns errors when building LEF/DEF, use GNU Make, or change the Makefiles so that they work on your system.

Mixing 5.4, 5.5 and 5.6 Syntax with 5.7 Syntax

Use caution when mixing versions 5.4, 5.5 and 5.6 syntax in LEF and DEF files. If you include obsolete 5.4, 5.5 and 5.6 constructs in a 5.7 file, the reader generates a warning.

Documentation

Documentation for the LEF and DEF application programming interfaces can be found in the [lef/doc](#) and [def/doc](#) subdirectories. Documentation for the *LEF/DEF Language Reference* can be found in the [./lefdefdoc](#) subdirectory. All documentation is presented in HTML and PDF.

Bug Reporting

You can report LEF/DEF bugs at <http://www.openeda.org> through the Issue Tracking System (ITS).

Platforms Supported

LEF/DEF utilities pass all internal tests on the following platforms:

- IBM AIX 5.3
- Linux
- SunOS Release 5.8

Installation

The following information explains how to compile the LEF and DEF packages.

Installing LEF

To install LEF, do the following:

1. Change directories (cd) to the `lef` subdirectory containing the package's source code.
2. To compile and build the package, type the following command:

```
gmake
```

3. To set `DEBUG` with `OPTIMIZE_FLAG`, type the following command:

```
gmake release
```

4. To install headers before compiling `lefrw lefdiff lefwrite`, type the following command:

```
gmake installhdrs
```

5. Optionally, to run the tests that come with the package, type the following command:

```
./gmake test
```

NOTE: To remove the program binaries and object files from the source code directory, type the following command:

```
gmake clean
```

Installing DEF

To install DEF, do the following:

1. Change directories (cd) to the `def` subdirectory containing the package's source code.
2. To compile and build the package, type the following command:

```
gmake
```

3. To set `DEBUG` with `OPTIMIZE_FLAG`, type the following command:

```
gmake release
```

4. To install headers before compiling `defrw defdiff defwrite`, type the following command:

```
gmake installhdrs
```

5. Optionally, to run the tests that come with the package, type the following command:

```
./gmake test
```

NOTE: To remove the program binaries and object files from the source code directory, type the following command:

```
gmake clean
```