OD.doc

COLLABORATORS

	TITLE : OD.doc		
ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY		January 9, 2023	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

OD.doc

1.1 OD -- The Oberon-A module definition utility

```
                  $RCSfile: OD.doc $
Description: Documentation for the Oberon-A module definition utility.

 Created by: fjc (Frank Copeland)
  $Revision: 1.1 $
    $Author: fjc $
      $Date: 1994/08/08 21:38:40 $
```

```
               Release history
                The history of OD
```

1.2 What is OD?

```
                OD is the Oberon-A module definition utility. Its purpose is  to ↩
                     create
a summary of the objects exported by a module, to  act  as  a  reference
for programmers. It is similar in  most  ways  to  the  Oberon  System's
'browser' utility.

The definition file created by OD closely resembles an  Oberon-2  module
containing only declarations and  procedure  headings.  It  is  produced
directly  from  a  module's  symbol  file,  and contains  only  those
declarations exported by the module and visible to its  clients.  It  is
structured roughly as follows:


    DEFINITION <module>;

    CONST
      <name> = <value>;
      ...

    TYPE
      <name> = <type>;
      ...

    VAR
      <name> : <type>;
      ...

    <procedure heading>
    ...

    END <module>.


Within each division, identifiers are listed alphabetically. It  is  not
possible to reproduce the structure of the original module.

Type-bound procedures and library call procedures are shown as  part  of
the declaration of the associated record type.
```

```
               Implementation
                A technical description of OD
```

1.3 A technical description of OD

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1.4 Copyright and distribution

OD is part of Oberon-A and is:

Copyright © 1994, Frank Copeland

See Oberon-A.doc for its conditions of use and distribution.

1.5 What do I need to run OD?

OD requires Release 2.04 (V37) of the Amiga operating system, or a later version.

1.6 Running OD from the CLI

```
Format:         OD [FROM] <file | pattern> [TO <directory>] [VERBOSE]
Template:       FROM/A/M, TO/K, VERBOSE/S
Purpose:        Generates definition files from symbol files.
Path:           OBERON-A:C/OD
```

Specification: OD reads the symbol file specified in the FROM parameter and generates a definition file which is output in the directory specified in the TO parameter, or in the current directory if there is none. You can specify several symbol files to be processed by giving multiple FROM arguments, or by using AmigaDOS pattern matching.

OD uses the standard AmigaDOS pattern matching routines, so the FROM arguments must fully specify the symbol file names, including the ".Sym" extension. If a TO parameter is given, it must be the name of an existing directory.

The VERBOSE switch causes OD to output additional information in the definition file. This includes the offsets of variables and record fields, and the sizes of types.

1.7 Running OD from the Workbench

OD cannot be run from the Workbench at present.

1.8 Running OD from the FPE utility

A tool button in the FPE window can be configured to run OD (see FPE.doc). In the button editor, set the Command field to the full path name of the OD program. Set the Arguments field to "Code/!M.Sym", or wherever else the module's symbol file may be found. If you wish the definition file to go somewhere else than the current directory, add the destination to the Arguments field. Specify a console window as the Console field. Put at least 10000 in the stack field.

For example:

```
Command="DH1:Oberon-A/OD"
Arguments="Code/!M.Sym TO OBERON-A:Defs"
Console="CON:0/11/540/189/OD'ing !M.../CLOSE/WAIT"
Stack=10000
```

To create a definition file:

1. select the module in the Module gadget.
2. click on the tool button OD is bound to.
3. sit back and relax for a bit.

1.9 Contacting the author

OD was written by Frank Copeland.

All bug reports, suggestions and comments can be directed to:

```
  Email : fjc@wossname.apana.org.au

  Mailing list : oberon-a@wossname.apana.org.au

  Snail Mail :

    Frank J Copeland
    PO BOX 236
    RESERVOIR  VIC  3073
    AUSTRALIA

    Remember the J.  It saves a lot of confusion at my end :-).
```

1.10 Reporting bugs and suggestions

You are encouraged to report any and all bugs you find, as well as any comments or suggestions for improvements you may have.

Before reporting a suspected bug, check the file ToDo.doc to see if it has already been noted. If it is a new insect, clearly describe its behaviour including the actions necessary to make it repeatable. Indicate in your report which version of OD you are using. Include an example of a definition file or symbol file that demonstrates the

```
bug.
```

1.11 Who did what and why

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```

1.12 Release History

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