NAME

yacc − an LALR(1) parser generator

SYNOPSIS

yacc [-dlrtv] [-b *file_prefix* **] [-p** *symbol_prefix* **]** *filename*

DESCRIPTION

Yacc reads the grammar specification in the file *filename* and generates an LR(1) parser for it. The parsers consist of a set of LALR(1) parsing tables and a driver routine written in the C programming language. *Yacc* normally writes the parse tables and the driver routine to the file *y.tab.c*.

The following options are available:

-b *file_prefix*
: The **-b** option changes the prefix prepended to the output file names to the string denoted by *file_prefix*. The default prefix is the character *y*.

-d
: The **-d** option causes the header file *y.tab.h* to be written.

-l
: If the **-l** option is not specified, *yacc* will insert #line directives in the generated code. The #line directives let the C compiler relate errors in the generated code to the user's original code. If the **-l** option is specified, *yacc* will not insert the #line directives. #line directives specified by the user will be retained.

-p *symbol_prefix*
: The **-p** option changes the prefix prepended to yacc-generated symbols to the string denoted by *symbol_prefix*. The default prefix is the string *yy*.

-r
: The **-r** option causes *yacc* to produce separate files for code and tables. The code file is named *y.code.c*, and the tables file is named *y.tab.c*.

-t
: The **-t** option changes the preprocessor directives generated by *yacc* so that debugging statements will be incorporated in the compiled code.

-v
: The **-v** option causes a human-readable description of the generated parser to be written to the file *y.output*.

If the environment variable TMPDIR is set, the string denoted by TMPDIR will be used as the name of the directory where the temporary files are created.

FILES

y.code.c
y.tab.c
y.tab.h
y.output
/tmp/yacc.aXXXXXX
/tmp/yacc.tXXXXXX
/tmp/yacc.uXXXXXX

DIAGNOSTICS

If there are rules that are never reduced, the number of such rules is reported on standard error. If there are any LALR(1) conflicts, the number of conflicts is reported on standard error.