NAME

yacc − yet another compiler-compiler

SYNOPSIS

yacc [**−vrd**] [grammar]

DESCRIPTION

Yacc converts a context-free grammar into a set of tables for a simple automaton which executes an LR(1) parsing algorithm. The grammar may be ambiguous; specified precedence rules are used to break ambiguities.

The output is *y.tab.c*, which must be compiled by the C compiler and loaded with any other routines required (perhaps a lexical analyzer) and the *yacc* library:

cc y.tab.c other.o −ly

If the **−v** flag is given, the file *y.output* is prepared, which contains a description of the parsing tables and a report on conflicts generated by ambiguities in the grammar.

The **−r** flag causes *yacc* to accept grammars with Ratfor actions, and produce Ratfor output on *y.tab.r.* Typical usage is then

rc y.tab.r other.o

If the **−d** flag is used, the file *y.tab.h* is generated with the *define* statements that associate the *yacc*-assigned ‘‘token codes’’ with the user-declared ‘‘token names’’. This allows source files other than *y.tab.c* to access the token codes.

SEE ALSO

lex(I)
LR Parsing by A. V. Aho and S. C. Johnson, Computing Surveys, June, 1974.
YACC − Yet Another Compiler Compiler by S. C. Johnson.

FILES

y.output	
y.tab.c	
y.tab.r	when ratfor output is obtained
y.tab.h	defines for token names
yacc.tmp, yacc.acts	temporary files
/lib/liby.a	runtime library for compiler
/usr/lib/yaccopar	parser prototype for C programs
/usr/lib/yaccrpar	parser prototype for Ratfor programs

DIAGNOSTICS

The number of reduce-reduce and shift-reduce conflicts is reported on the standard output; a more detailed report is found in the *y.output* file.

BUGS

Because file names are fixed, at most one *yacc* process can be active in a given directory at a time.