NAME

yacc - yet another compiler-compiler

SYNOPSIS

yacc [-vd] grammar

DESCRIPTION

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

The output file, y.tab.c, must be compiled by the C compiler to produce a program *yyparse*. This program must be loaded with the lexical analyzer program, *yylex*, as well as *main* and *yyer*ror, an error handling routine. These routines must be supplied by the user; lex(1) is useful for creating lexical analyzers usable by *yacc*.

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.

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.

FILES

y.output	
y.tab.c	
y.tab.h	defines for token names
yacc.tmp, yacc.acts	temporary files
/usr/lib/yaccpar	parser prototype for C programs

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.

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. Similarly, if some rules are not reachable from the start symbol, this is also reported.

BUGS

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