MIT SCHOOL OF ENGINEERING

Rajbaug, Loni-Kalbhor, Pune



Name: CAURAV THAKKAR Class: CSE I Batch: A Subject: PL IV Roll No.: 2183505 Exp. No.: 5 Name of the Experiment: Marks Teacher's Signature with date Performed on: 10 Submitted on:
Title:- Implement Passer for sample language using YACC Problem Statement:- Implement YACC for subset of C (for loop switch struct while loop It loop)
Objectives:- To understand the basic syntax of YACC To understand how a compiler paxing phase works for subset of C

MIT SCHOOL OF ENGINEERING Rajbaug, Loni-Kalbhor, Pune Theory: Paner generator facilitates the construction of the front end of a compiler YACC & LALR paker generator It is used to implement humdreds of compiles YACC stands for "Yet Another Compiler Comsiler" A YACC Source program has three parts: Declaration Translation Rules Supporting Subroutines Implementation Details/Design logici-Algorithm: & LEX :-1) Declaration of header files especially y tabih which contains dedirations for the tokens FOR, 6PBR, CLBR, SEMIC RELOP, EQU, ID, NUM, RELOP, INC, DEC

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2)	Define the regular expression for the
	Lokens FOR, ORBR, CLBR, SEMIC, RELOP,
	EQU, ID, NOM, RELOP, INC, DEC.
3)	End of declaration section with %%
4)	Match regular expression
5)	If match found then store it in yalva
	where p is pointer declared in YACC
6)	Return the token
7	End rule-action by %/c
8)	End
TOLO4	Sang ton worked broducture NOT three
•	YACC
	Declaration
	Declaration of header feles
2)	Declare tokens FOR, OPBR, CLBR, SEMIC,
	RELOP, EQU, ID @ NUM, RELOP, INC, BEC
_3)	End of decliration section by %%
4	Declaration of granmar
5	End the section by 1/0/0
_ 6	Declare main () function & 3
7	(a) Call yypane () function with your
) Ena
at	
	RELOP EAU, ID NUM RELOPING

MIT SCHOOL OF ENGINEERING Rajbaug, Loni-Kalbhor, Pune FAQI when does yourap function return I and what is data type of your? Aus yywrap():-When yylex() finished with first file, it calls yyumap() which opens the next file and yylex() continues When yyumap() has exhausted all the lines of code, it networs I & yylex() returns with value 0 yyin():-- yyin & yyout are the FILE &s to input & output file respecturely Both are accessible and can be assigned to a value other than stdin & stdout - yylexc) reads the v/r indicated by the global variable file pointer - yyin defaults to standard input yylex is of type int, so a non zero value is normally returned

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0.0	What is the significance of YACC?
Ann	YACC stands for Yet Another Compiler
	Compiler
	yack provides a tool to produce a
	taker lov a given annumar
-	TyACCIs a program designed to comple
	a AKIII amoniniar
0 -	It is used to produce the source code of the syntatic analyzer
	the syntatic analyzer
0.3	For which phase of compilation is YACC used?
1	used? I what is sold to be seen
Aus	YACC provides a tool to produce a paver for a given granimar
	for a given granimar
	YACC is a program designed to comple a LALR(1) program
	a LALR(1) program
<u> </u>	It is used for Syntatic Analysis and input
	is the rule or grammar & the outputs
Don	ya Cprogram.
7	The value of the value of
<u> </u>	Conclusion!
	D - 1 1 P - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	Purpose of this arrignment is fulfilled
	of paser for sample language using
	The paser for sample language using
	1/100