SDD (Symian Diretted Definition)

SDD (Syntax Wirelted Squidon)
SDD is a context few gramman together with attriby

rand rules

Attributes an associated with grammer sympths & rules an associated with productions

If x is a symbol and a is one of its rattribute then we write X. a.

To kinds of attributes for non terminals syn

- 8) Inherited attribute
- 1) Synthesized cattribute:

A synthesized attribute at node N is defined only in the of attribute values at the children N and afet 'N' itself

2) Inherited attribute:

An iherited att at node M is defined only in terms of attribute values at parent, sibilings at itself.

* Annolated pour bue

A pour tru show the vals of at the attributes is called annotated pour lu

En.

Production Semantic nells	Tival
F->E+7 P. Val = E1: Val +	Tival
T +> T*F T.val : T. val	(xF.va)
Inval = F	LX F. Vol Trots
	100 Englis
F -> (E) Id F. vol = 16	e.val). Fival: 3
	3 digit tred
	• 1
# diff blw s-attributed	& L-attributed
* auf bir ; aurisons)
1	
1) uses only synthesized attri	1) Uses both synthesized & inhunited attribute
2) Symantic actions caupland	2) symantic vactions are placed
at right end of a production	any when.
A PULL OF THE	A - NOC / A - BC(5 A-BL)C
F. V.	I have branchating
3) rattributes are evaluated during	parx true to depth first
bottom up pouring	haud on
4) S-att grammar is based on	Wit att. gramme is based on
LR gramman ((10)	Li grammai
	1 S. I. woted with my distance
of otherse au implemented using	
LALR parmer	languez en en en el
	(

* YACC (Yet another compiler-compiler) YACC Compiler - ytab.c 4ACE c compiler

In the part of the specification a set of production

<head >-> <body 1>/2body 2>1 ... <body n > could be written in YACC as <head>: <body !> < semantic action 14</pre>

< body 2> { Semantic action 2 } <body n> 1semantic action y

A YACC semantic action is a sequence of a statement willow studentta. We at engire \$\$ lad mys with be breatly in men burning - non with while bette warran \$2 refers to the rule value associated the in gramman symbol on the night hand side. モ → モ+7/7 7-3-7*FIF Cinching $F \rightarrow (E) | Digil$ E. E+T {\$\$ = \$ 1+ \$39 T:7 X = 1 94 - \$1 * \$35 F:(E) { \$ \$ = (\$2)} 1.7. \ digit Availiary Procedure The 3rd section thre appelification consult of supporting c Routines % L#include zctype.h> % toben DIGIT

1 factor

factor (expr) ? \$ \$ = (\$2)} latight and in the same of the y. Z. mais in the many is not Karangan Penagan · it has a fact in yylin() linde; c = getChanl); if (indigitle) is on the state of ' 'Yylval = (-'o'; return c; yace filmame.y. to with white yourself and a second Control of the second of