Computer Longuer Lo



Stream of tokens
Syntex (parser) analyzer

Symble table maneger

Semantic analyzer

Syntex tree

(semanticall y verifierd)

Error handler

Parse tree

Intermediate code generator

Intermediate representation

(3 address code) Between high & low language

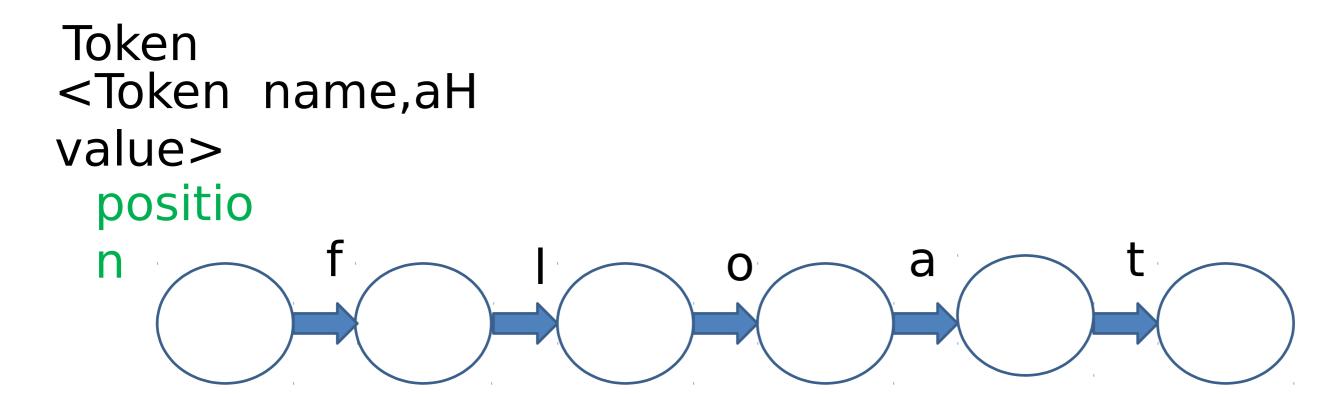
Code optimize

(reduce number of lines)

Intermediate representation

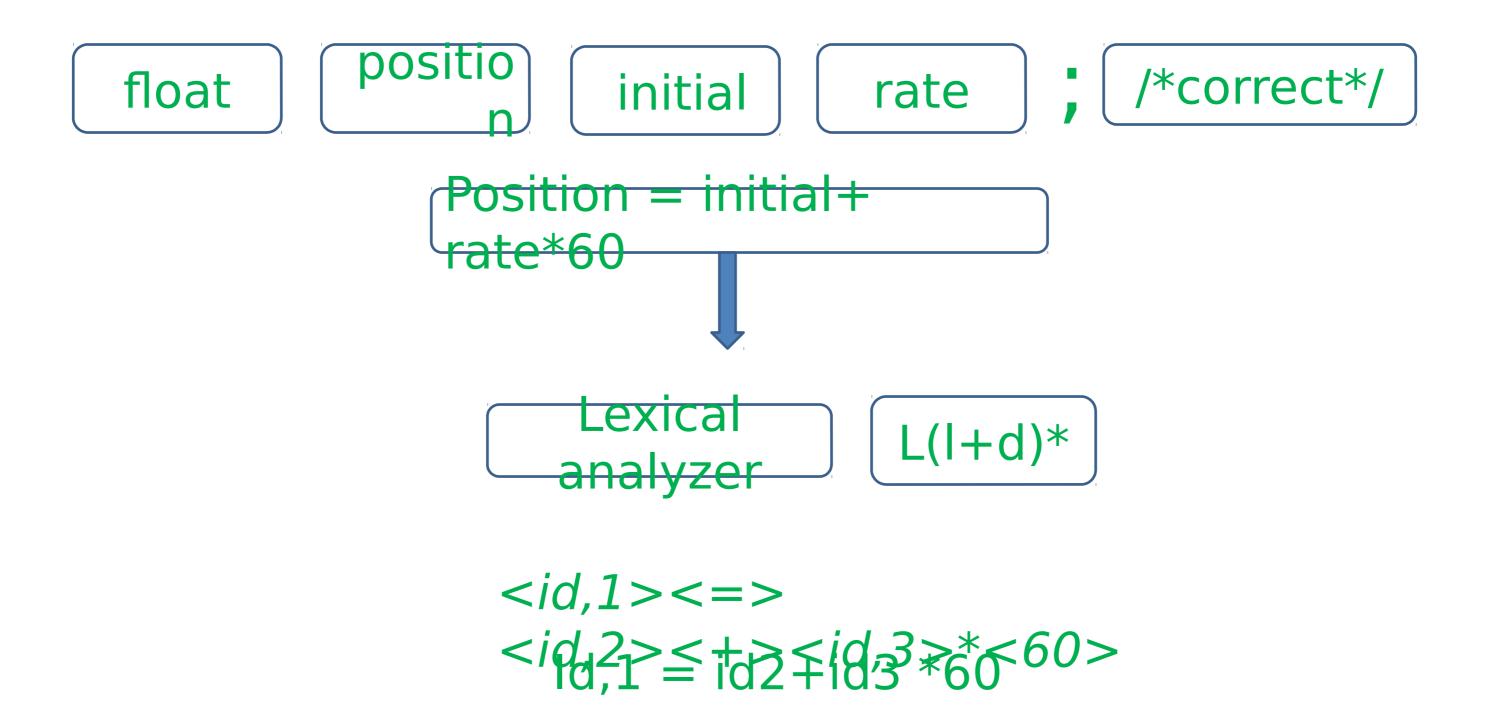
Terget code generator

Lixeme, Pattern, Token



Symble table

s/n	v/n	v/t
01	Positio n	float
02	initial	float
03	Rate	float



A lexeme is a sequence of character matching the pattern

Token	Sample lexeme	pattern
it	it	it
Relation	<,<=,=,<>,>,=	<or<=or<>or >or>=</or<=or<>

Compiler Deisgn

Intoduction to lexecal analyzer

/*find sum of x and y*/

Int sum (x,y) Return (x+y)

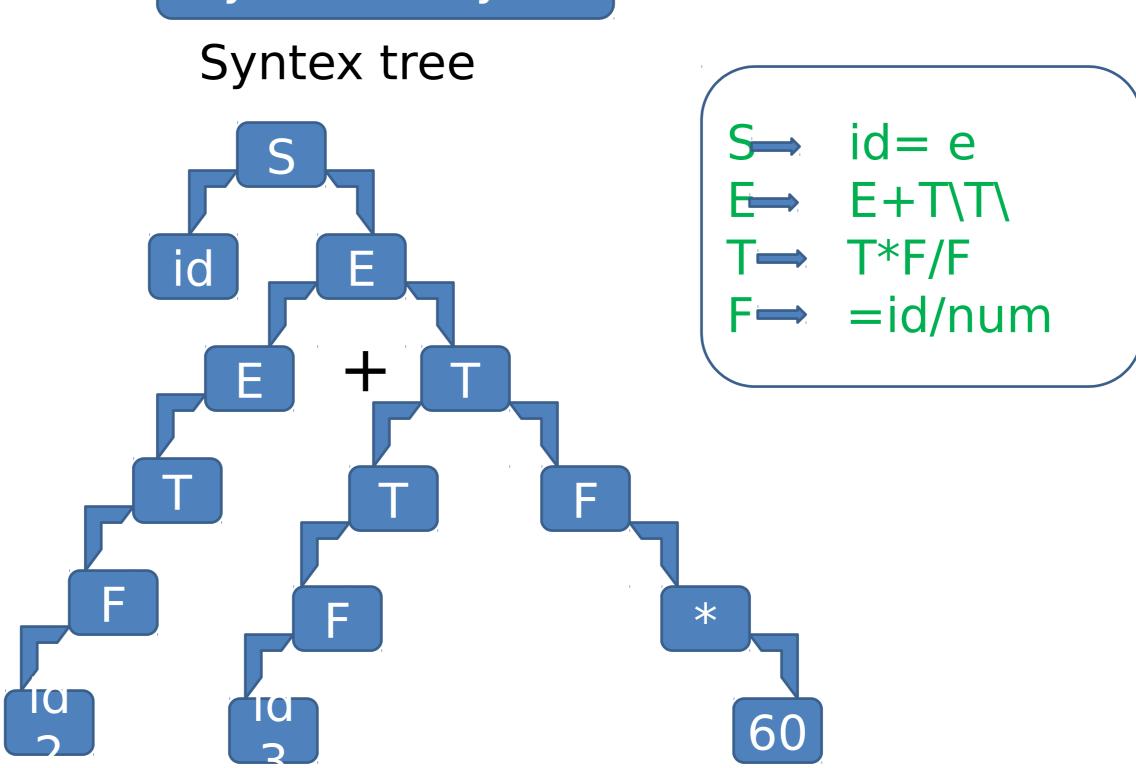
Compiler Deisgn Introduction to syntex analyzer

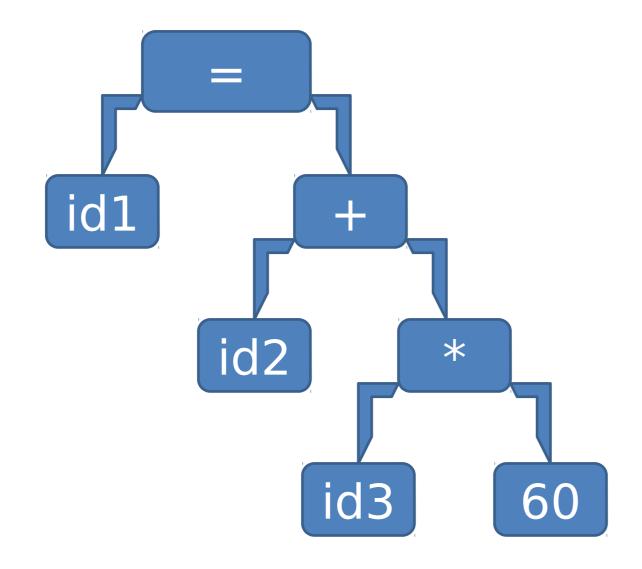
Float,position,initial,rate position= initial+rate*60

Lexical analyzer

Id1 = id2 + id3*60

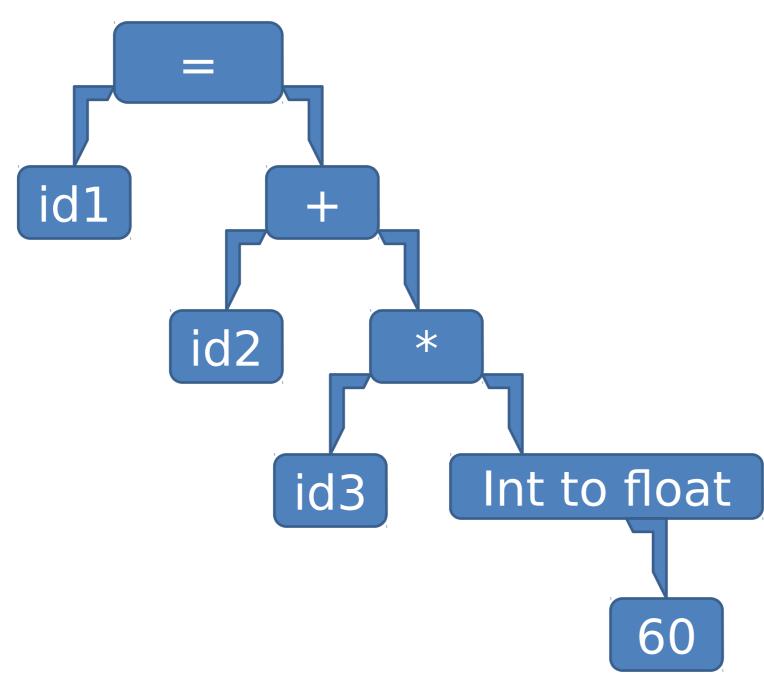
Syntex analyzer (Parser)





Semantic analyzer

Syntex tree semantically



Float, position, initial

initi Lexical

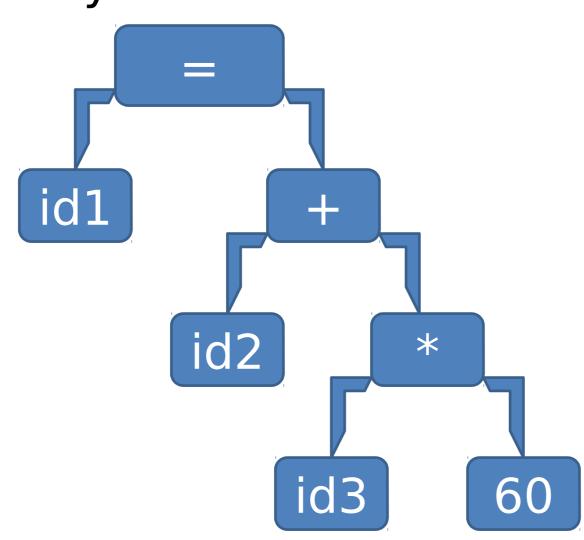
analyzer

Id1 = id2 + id3

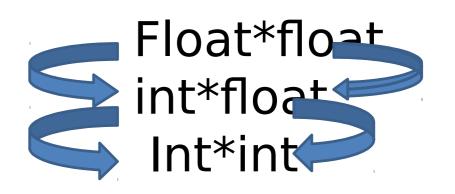
\$6 Peam of tokens

Syntex

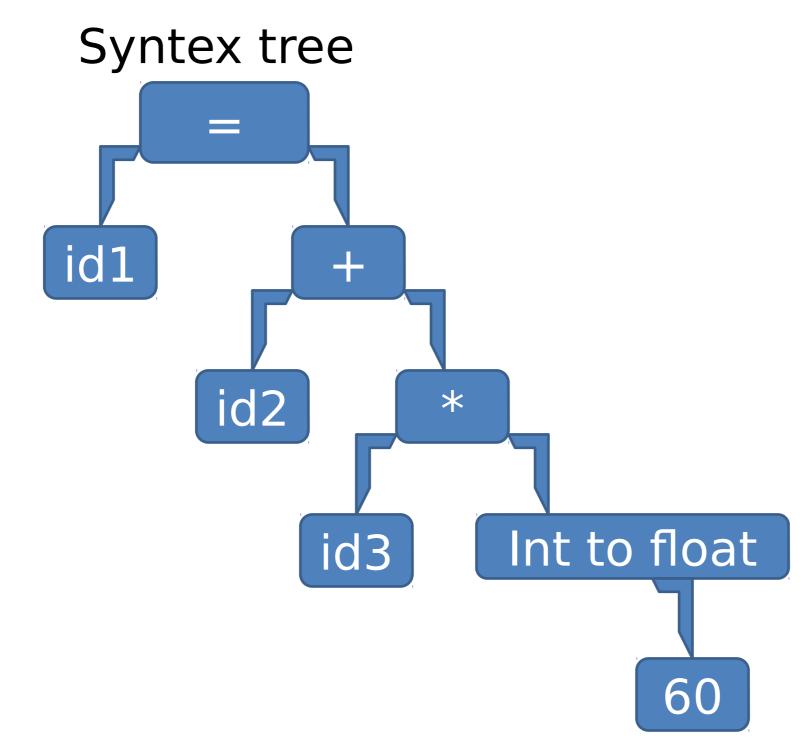
Syntex tree



Int*float Float id3 *60



Semantnet ic analyzer



Intermediate cod generator

$$t1 = id3*60.0$$

 $Id1 = id2 + t1$