Definición formal de la traducción

Atributos semánticos

Producción	Atributos Sintetizados	Atributos Heredados
Prog	cod	
Ident		
Iden		
Bloque	cod	
Tvar	cod	
Tvar2		
Tipo		
TBloque	cod	
TBloque2	cod	
TRead	cod	
TWrite	cod	
Text	cod	
TAsig	cod	
Exp	cod	
ExpSimple	cod	
Term	cod	
Fact	cod	
OpMul	ор	
OpAd	ор	
OpUn	ор	
Comp	op	

Gramática de atributos

Ident ::= id PA Iden PC

Iden := id

Iden::= Iden COMA id

Bloque ::= TBloque

Bloque.cod = TBloque.cod

Bloque ::= Tvar TBloque

Bloque.cod = TBloque.cod

Tvar ::= var Tvar2 *Tvar*.cod = *Tvar2*.cod

Tvar2 ::= id 2PUNTOS Tipo PYCOMA

Tvar2 ::= id 2PUNTOS Tipo PYCOMA Tvar2

Tipo ::= integer

Tipo ::= boolean

TBloque ::= begin TBloque2 end

TBloque.cod = TBloque2.cod

TBloque2 ::= λ

TBloque2 ::= TAsig TBloque2

TBloque2₀.cod = TAsig.cod || TBloque2₁.cod

```
TBloque2 ::= TRead TBloque2
       TBloque2_0.cod = TRead.cod \parallel TBloque2_1.cod
TBloque2 ::= TWrite TBloque2
       TBloque2_0.cod = TWrite.cod || TBloque2_1.cod
TRead ::= read TA id TC PYCOMA
       TRead.cod = lee || desapila_dir(dameDir(TRead.tsh,id.lex))
TWrite ::= write TA Text TC PYCOMA
       TWrite.cod = Text.cod
Text ::= texto
       Text.cod = apila(texto.lex) || escribe
Text := id
       Text.cod = apila(dameValor(Text.tsh,id.lex)) || escribe
TAsig ::= id ASIG Exp
       TAsig.cod = Exp.cod || desapila_dir(dameDir(TAsig.tsh,id.lex))
Exp ::= ExpSimple
       Exp.cod = ExpSimple.cod
Exp ::= ExpSimple Comp ExpSimple
      Exp.cod = ExpSimple_0.cod \parallel ExpSimple_1.cod \parallel Comp.op
ExpSimple ::= ExpSimple OpAd Term
       ExpSimple_0.cod = ExpSimple_1.cod \parallel Term.cod \parallel OpAd.op
ExpSimple ::= Term
       ExpSimple.cod = Term.cod
Term ::= Term OpMul Fact
       Term_0.cod = Term_1.cod || Fact.cod || OpMul.op
Term ::= Fact
       Term.cod = Fact.cod
Fact ::= numero
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Fact.cod = apila(valorDe(numero))

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Fact ::= true
      Fact.cod = apila(true)
Fact ::= false
      Fact.cod = apila(false)
Fact := id
      Fact.cod = apila_dir(dameDir(Fact.tsh,id.lex))
Fact ::= OpUn \ Fact
      Fact_0.cod = Fact_1.cod \parallel OpUn.op
Fact := (Exp)
      Fact.cod = Exp.cod
OpAd ::= +
      OpAd.op = suma
OpAd ::= -
      OpAd.op = resta
OpAd ::= or
      OpAd.op = or
OpMul ::= *
      OpMul.op = multiplica
OpMul ::= /
      OpMul.op = divide
OpMul := and
      OpMul.op = and
OpUn ::= +
      OpUn.op = positivo
OpUn ::= +
      OpUn.op = negativo
OpUn ::= not
      OpUn.op = not
Comp ::= <=
      Comp.op = menor_igual
```

Comp.op = mayor_igual

Comp ::= <

Comp.op = menor

Comp ::= >

Comp.op = mayor

Comp ::= =

Comp.op = igual

 $Comp ::= \neq$

Comp.op = distinto