Imp breeklabel.

continue Label

cond

Longiste breaklabel

body

break Label

visit Enter (While Sfut Nool) }

breaklabel = Labeller.

continue Label = Labeller.

node. Set Break Label (hreaklabel node. Set Continue Label (continue

Attributed grammar 3 grammar + rules.
Attributed grammar 3

$$E_1 \rightarrow (E_2)$$

 E_1 . type = E_2 . type E_1 . is Constant = E_2 . is Constant

$$E_1 \rightarrow L + E_2$$
 $E_1 + Vpe = if Vpe = if Vpe = L + Vpe = E_1 + Vpe = E_2 + Vpe = E_3 + Vpe = E_4 + Vpe = E_5 + Vpe = E_5$

Entype = if (Litype == int & Ez. type == int)

then int else float;

Etype = L. type

EisConstant = L. is Constant

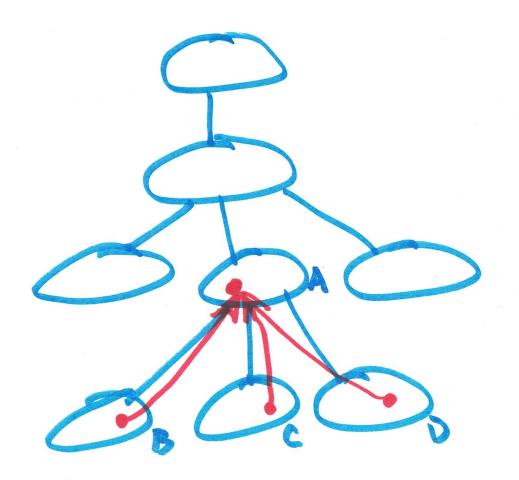
Litype = Eitype

Lisconst = EisConst

Lisconst = EisConst

LAY

L. type = v. type v.type = v. getBirding().getType() L. 1s Const = False L.type = ic.type ic.type = int Lis Const = true Litype = fc.type fc. type = float Lis Const = true



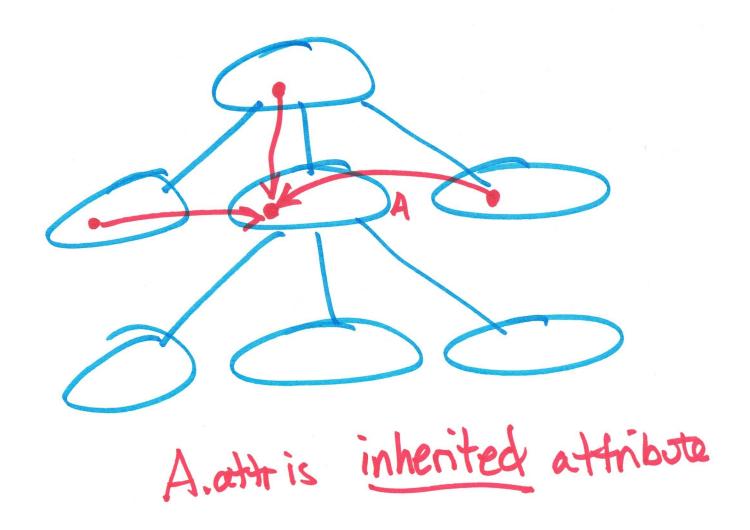
A->BCD

A.attr :=

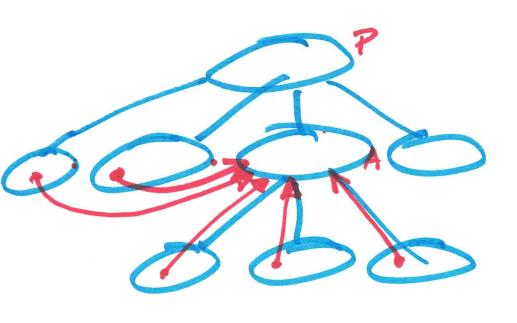
f(B.a1, C.a2,

D.a3);

A. attr. is <u>synthesized</u> or <u>synthetic</u>.



Attributed Grammar is called S-attributed if every attribute is synthetic.



L-attributed if
every attribute
depends on children
attributes and
left-sibling attributes

If grammer is not L-attributed, use a more complex evaluation scheme than postorder. Generally compiler will do a topological sort on the attribute cligraph.