# **VISITOR** \* deferred class interface

### feature

VISITOR

visist forall (e: FORALL)

visit a n d (e: A N D)

visit boolean (e: BINARY CONSTANT)

visit counting (e: COUNTING)

visit current (e: CURRENT EXPRESSION)

visit difference (e: DIFFERENCE)

visit equal (e: EQUAL)

visit exists (e: EXISTS)

visit g t (e: G T)

visit implies (e: I M P L I E S)

visit integer (e: INTEGER CONSTANT)

visit\_intersect (e: INTERSECT)

visit 1 t (e: L T)

visit minus (e: MINUS)

visit\_mod (e: MOD)

visit negation (e: NEGATION)

visit negative (e: NEGATIVE)

visit\_nil (e: NIL\_EXPRESSION)

visit o r (e: O R)

visit plus (e: PLUS)

visit\_product (e: PRODUCT)

visit quotient (e: QUOTIENT)

visit set enumeration (e: SET ENUM)

visit sigma (e: SIGMA)

visit times (e: TIMES) visit union (e: UNION)

visit x o r (e: X O R)

### **EXPRESSION \***

### deferred class interface EXPRESSION

feature -- Attributes accept (v: VISITOR)

output: STRING 8

## PRETTY PRINT +

feature -- Attributes text: STRING 8

## feature -- visitors

visist forall (e: FORALL) visit a n d (e: A N D)

visit boolean (e: BINARY CONSTANT)

visit counting (e: COUNTING)

visit current (e: CURRENT EXPRESSION)

visit difference (e: DIFFERENCE)

visit equal (e: EQUAL) visit exists (e: EXISTS)

visit\_g\_t (e: G\_T)

visit implies (e: I M P L I E S) visit integer (e: INTEGER CONSTANT)

visit intersect (e: INTERSECT)

visit 1 t (e: L T)

visit\_minus (e: MINUS)

visit mod (e: MOD)

visit negation (e: NEGATION)

visit\_negative (e: NEGATIVE)

visit nil (e: NIL EXPRESSION)

visit o r (e: O R)

visit\_plus (e: PLUS)

visit product (e: PRODUCT) visit quotient (e: QUOTIENT)

visit\_set\_enumeration (e: SET\_ENUM)

visit sigma (e: SIGMA)

visit times (e: TIMES)

visit union (e: UNION)

visit\_x\_o\_r (e: X\_O\_R)

# ANALYSIS +

feature -- Attributes

type correct: BOOLEAN value: INTEGER 32

feature -- visitors visist forall (e: FORALL)

visit\_a\_n\_d (e: A\_N\_D)

visit\_boolean (e: BINARY CONSTANT)

visit counting (e: COUNTING)

visit\_current (e: CURRENT\_EXPRESSION)

visit difference (e: DIFFERENCE)

visit equal (e: EQUAL)

visit exists (e: EXISTS)

visit g t (e: G T)

visit implies (e: I M P L I E S)

visit\_integer (e: INTEGER\_CONSTANT)

visit intersect (e: INTERSECT)

visit l\_t (e: L\_T)

visit minus (e: MINUS)

visit mod (e: MOD)

visit\_negation (e: NEGATION)

visit negative (e: NEGATIVE)

visit nil (e: NIL EXPRESSION)

visit\_o\_r (e: O\_R)

visit\_plus (e: PLUS)

visit product (e: PRODUCT)

visit\_quotient (e: QUOTIENT)

visit set enumeration (e: SET ENUM)

visit sigma (e: SIGMA)

visit times (e: TIMES)

visit\_union (e: UNION)

visit\_x\_o\_r (e: X\_O\_R)

## SIMPLIFICATION +

feature -- Attributes

boolean value: BOOLEAN

integer value: INTEGER 32

set: SET [EXPRESSION]

text: STRING 8

feature -- visitors

visist forall (e: FORALL)

visit a n d (e: A N D)

visit boolean (e: BINARY CONSTANT)

visit counting (e: COUNTING)

local

sum: INTEGER i: INTEGER

imp: ARRAY [EXPRESSION]

visit\_current (e: CURRENT\_EXPRESSION)

visit difference (e: DIFFERENCE) visit equal (e: EQUAL)

visit exists (e: EXISTS)

visit g t (e: G T)

visit\_implies (e: I\_M\_P\_L\_I\_E\_S)

visit\_integer (e: INTEGER\_CONSTANT)

visit intersect (e: INTERSECT)

visit\_l\_t (e: L\_T)

visit\_minus (e: MINUS)

visit mod (e: MOD)

visit\_negation (e: NEGATION)

visit negative (e: NEGATIVE)

visit nil (e: NIL EXPRESSION) visit o r (e: O R)

visit\_plus (e: PLUS)

visit product (e: PRODUCT)

visit\_quotient (e: QUOTIENT) visit set enumeration (e: SET ENUM)

visit sigma (e: SIGMA)

visit times (e: TIMES)

visit union (e: UNION) visit\_x\_o\_r (e: X\_O\_R)