## AdaSymExample

--------------------------

PROCEDURE: two

DEPTH: 2

--------------------------

--------------------------

PROCEDURE: three

DEPTH: 2

--------------------------

Lexeme: id

Type: INT

Offset: 0

Size: 2

Parameter? TRUE

Lexeme: id2

Type: INT

Offset: 0

Size: 2

Parameter? FALSE

--------------------------

PROCEDURE: four

DEPTH: 2

--------------------------

Lexeme: id

Type: INT

Offset: 2

Size: 2

Parameter? TRUE

Lexeme: id2

Type: INT

Offset: 0

Size: 2

Parameter? TRUE

Lexeme: id3

Type: INT

Offset: 0

Size: 2

Parameter? FALSE

--------------------------

PROCEDURE: one

DEPTH: 1

--------------------------

Lexeme: id

Type: INT

Offset: 0

Size: 2

Parameter? FALSE

Lexeme: two

Type: PROC

Locals: 0

Paramaters: (0)

Lexeme: three

Type: PROC

Locals: 1

Paramaters: IN INT, (1)

Lexeme: four

Type: PROC

Locals: 1

Paramaters: IN INT, IN INT, (2)

--------------------------

GLOBAL

DEPTH: 0

--------------------------

Lexeme: one

Type: PROC

Locals: 4

Paramaters: (0)

## add

--------------------------

PROCEDURE: Add

DEPTH: 1

--------------------------

Lexeme: A

Type: INT

Offset: 4

Size: 2

Parameter? TRUE

Lexeme: B

Type: INT

Offset: 2

Size: 2

Parameter? TRUE

Lexeme: C

Type: INT

Offset: 0

Size: 2

Parameter? TRUE

--------------------------

GLOBAL

DEPTH: 0

--------------------------

Lexeme: Add

Type: PROC

Locals: 0

Paramaters: IN INT, IN INT, OUT INT, (3)

## comment

--------------------------

PROCEDURE: eight

DEPTH: 2

--------------------------

Lexeme: x

Type: INT

Offset: 2

Size: 2

Parameter? TRUE

Lexeme: y

Type: INT

Offset: 0

Size: 2

Parameter? TRUE

--------------------------

PROCEDURE: comment

DEPTH: 1

--------------------------

Lexeme: eight

Type: PROC

Locals: 0

Paramaters: IN INT, IN INT, (2)

Lexeme: count

Type: CONST\_INT

Value: 5

--------------------------

GLOBAL

DEPTH: 0

--------------------------

Lexeme: comment

Type: PROC

Locals: 2

Paramaters: (0)

## error1

Error on line 3: Unexpected identifier MyProc2. Expected MyProc. Exiting...

## error2

Error on line 2: A definition for variable Value already exists in the current scope. Exiting...

## error3

Error on line 2: A definition for variable x already exists in the current scope. Exiting...

## error4

Error on line 3: A definition for variable num already exists in the current scope. Exiting...

## quad

--------------------------

PROCEDURE: Quadratic

DEPTH: 1

--------------------------

Lexeme: Root\_1

Type: FLOAT

Offset: 6

Size: 4

Parameter? TRUE

Lexeme: Root\_2

Type: FLOAT

Offset: 2

Size: 4

Parameter? TRUE

Lexeme: OK

Type: INT

Offset: 0

Size: 2

Parameter? TRUE

Lexeme: A

Type: FLOAT

Offset: 18

Size: 4

Parameter? TRUE

Lexeme: B

Type: FLOAT

Offset: 14

Size: 4

Parameter? TRUE

Lexeme: C

Type: FLOAT

Offset: 10

Size: 4

Parameter? TRUE

Lexeme: D

Type: FLOAT

Offset: 0

Size: 4

Parameter? FALSE

--------------------------

GLOBAL

DEPTH: 0

--------------------------

Lexeme: Quadratic

Type: PROC

Locals: 1

Parameters: IN FLOAT, IN FLOAT, IN FLOAT, OUT FLOAT, OUT FLOAT, OUT INT, (6)

## simple

--------------------------

PROCEDURE: one

DEPTH: 1

--------------------------

--------------------------

GLOBAL

DEPTH: 0

--------------------------

Lexeme: one

Type: PROC

Locals: 0

Paramaters: (0)

## test

--------------------------

PROCEDURE: NestedProc

DEPTH: 2

--------------------------

Lexeme: E

Type: CHAR

Offset: 0

Size: 1

Parameter? FALSE

Lexeme: W

Type: INT

Offset: 0

Size: 2

Parameter? TRUE

--------------------------

PROCEDURE: FullTest

DEPTH: 1

--------------------------

Lexeme: NestedProc

Type: PROC

Locals: 1

Paramaters: INOUT INT, (1)

Lexeme: A

Type: INT

Offset: 0

Size: 2

Parameter? FALSE

Lexeme: B

Type: INT

Offset: 2

Size: 2

Parameter? FALSE

Lexeme: C

Type: INT

Offset: 4

Size: 2

Parameter? FALSE

Lexeme: D

Type: CONST\_FLOAT

Value: 3.14

Lexeme: E

Type: CONST\_INT

Value: 3

Lexeme: W

Type: CHAR

Offset: 0

Size: 1

Parameter? TRUE

Lexeme: X

Type: INT

Offset: 7

Size: 2

Parameter? TRUE

Lexeme: Y

Type: INT

Offset: 5

Size: 2

Parameter? TRUE

Lexeme: Z

Type: FLOAT

Offset: 1

Size: 4

Parameter? TRUE

--------------------------

GLOBAL

DEPTH: 0

--------------------------

Lexeme: FullTest

Type: PROC

Locals: 6

Paramaters: IN INT, IN INT, OUT FLOAT, INOUT CHAR, (4)

## test1

--------------------------

PROCEDURE: MinimalTest1

DEPTH: 1

--------------------------

Lexeme: max\_value

Type: CONST\_INT

Value: 100

Lexeme: num

Type: INT

Offset: 0

Size: 2

Parameter? FALSE

Lexeme: rate

Type: FLOAT

Offset: 3

Size: 4

Parameter? FALSE

Lexeme: ch

Type: CHAR

Offset: 2

Size: 1

Parameter? FALSE

--------------------------

GLOBAL

DEPTH: 0

--------------------------

Lexeme: MinimalTest1

Type: PROC

Locals: 4

Parameters: (0)

## test2

--------------------------

PROCEDURE: MinimalTest2

DEPTH: 1

--------------------------

Lexeme: a

Type: FLOAT

Offset: 4

Size: 4

Parameter? FALSE

Lexeme: b

Type: FLOAT

Offset: 8

Size: 4

Parameter? FALSE

Lexeme: c

Type: FLOAT

Offset: 12

Size: 4

Parameter? FALSE

Lexeme: x

Type: INT

Offset: 0

Size: 2

Parameter? FALSE

Lexeme: y

Type: INT

Offset: 2

Size: 2

Parameter? FALSE

Lexeme: letter

Type: CHAR

Offset: 16

Size: 1

Parameter? FALSE

--------------------------

GLOBAL

DEPTH: 0

--------------------------

Lexeme: MinimalTest2

Type: PROC

Locals: 6

Parameters: (0)

## test3

--------------------------

PROCEDURE: InnerProc

DEPTH: 2

--------------------------

Lexeme: local\_var1

Type: FLOAT

Offset: 0

Size: 4

Parameter? FALSE

Lexeme: local\_var2

Type: INT

Offset: 4

Size: 2

Parameter? FALSE

--------------------------

PROCEDURE: MinimalTest3

DEPTH: 1

--------------------------

Lexeme: global\_var

Type: INT

Offset: 0

Size: 2

Parameter? FALSE

Lexeme: InnerProc

Type: PROC

Locals: 2

Parameters: (0)

--------------------------

GLOBAL

DEPTH: 0

--------------------------

Lexeme: MinimalTest3

Type: PROC

Locals: 2

Parameters: (0)

## test4

--------------------------

PROCEDURE: InnerProc

DEPTH: 2

--------------------------

Lexeme: var1

Type: FLOAT

Offset: 0

Size: 4

Parameter? FALSE

--------------------------

PROCEDURE: MinimalTest4

DEPTH: 1

--------------------------

Lexeme: InnerProc

Type: PROC

Locals: 1

Parameters: (0)

Lexeme: var1

Type: INT

Offset: 0

Size: 2

Parameter? FALSE

--------------------------

GLOBAL

DEPTH: 0

--------------------------

Lexeme: MinimalTest4

Type: PROC

Locals: 2

Parameters: (0)

## test5

--------------------------

PROCEDURE: MinimalTest5

DEPTH: 1

--------------------------

Lexeme: local\_var

Type: INT

Offset: 0

Size: 2

Parameter? FALSE

Lexeme: a

Type: INT

Offset: 5

Size: 2

Parameter? TRUE

Lexeme: b

Type: FLOAT

Offset: 1

Size: 4

Parameter? TRUE

Lexeme: c

Type: CHAR

Offset: 0

Size: 1

Parameter? TRUE

--------------------------

GLOBAL

DEPTH: 0

--------------------------

Lexeme: MinimalTest5

Type: PROC

Locals: 1

Paramaters: IN INT, OUT FLOAT, INOUT CHAR, (3)