E.GetValue()算法

if ( is LongValue or IntValue or CharValue)

return E.Value;

else if (E is ArrayExpression)

else if (E is IdentifyExpression)

return E;

else if (E is TrueExpression)

return 1;

else if (E is FalseExpression)

return 0;

else if (E is ArrayGet)

else if (E is OPExpression)

case +, -, \*, /, &, |

T = newTemp();

(op, E1.GetValue(), E2.GetValue(), T);

return T;

case &&, ||

newLabel(L1);

arg1 = E1.GetValue();

(je, arg1, 0, L1);

T1 = newTemp();

(mov, 1, \_, T1);

arg1 = T1;

(label, \_, \_, L1);

newLabel(L2);

arg2 = E2.GetValue();

(je, arg2, 0, L2)

T2 = newTemp();

(mov, 1, \_, T2);

arg2 = T2;

(label, \_, \_, L2);

T3 = newTemp();

(op, arg1, arg2, T3);

return T3;

case <<, >>

T = newTemp();

(op, E1.GetValue, E2.GetValue, T)

return T;

case <, <=, >, >=, ==, !=

newLabel(L1, L2, L3);

(op, E1.GetValue, E2.GetValue, L1);

(!op, E1.GetValue, E2.GetValue, L2);

T = newTemp();

(label, \_, \_, L1);

(mov, 1, \_, T);

(jmp, \_, \_, L3);

(label, \_, \_, L2);

(mov, 0, \_, T);

(label, \_, \_, L3);

return T;

else if (E is SingleOPExpression)

case !

newLabel(L);

T1 = newTemp()

T1 = E.GetValue();

(je, T1, 0, L);

(mov, 1, \_, T1);

(label, \_, \_, L);

T2 = newTemp();

(not, T1, \_, T2);

return T2;

case ++, --

T = newTemp();

(op, E.GetValue(), 1, T);

return T;

case ^

T = newTemp();

(not, E.GetValue(), \_, T);

return T;

case –

T = newTemp();

(neg, E.GetValue(), \_, T);

return T;