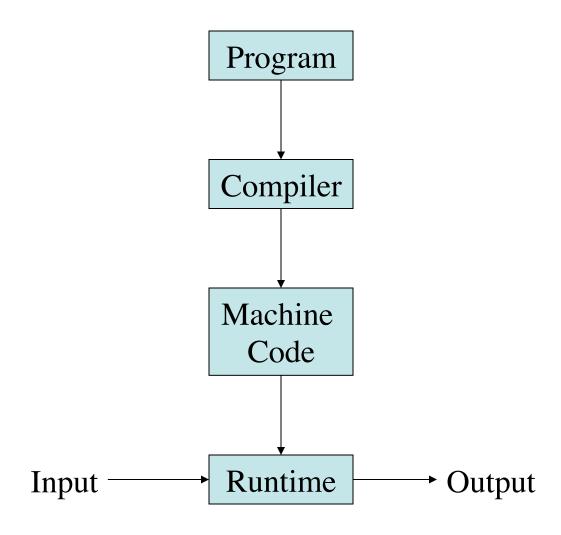
IN1: Trusting Trust

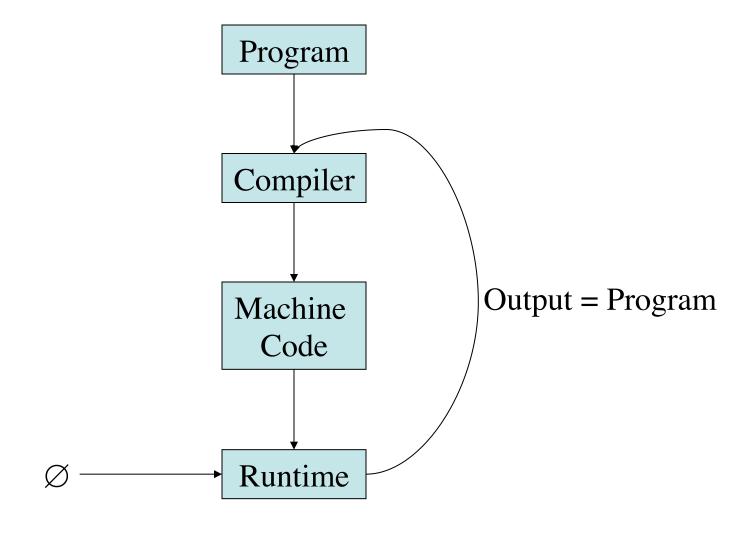
CMPT 379 Compilers

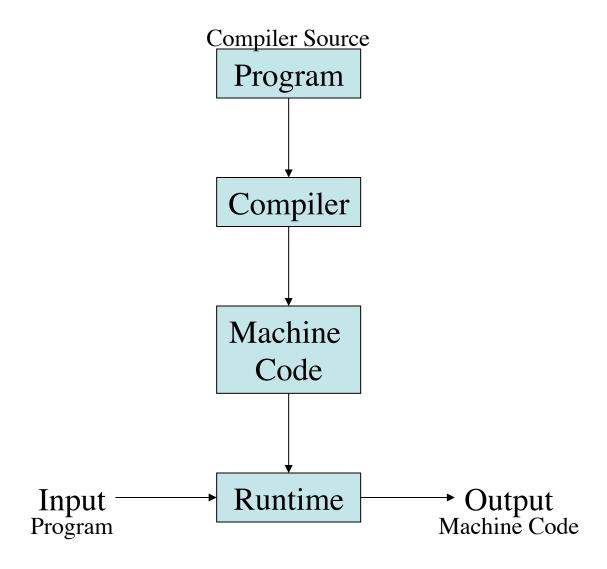
Anoop Sarkar

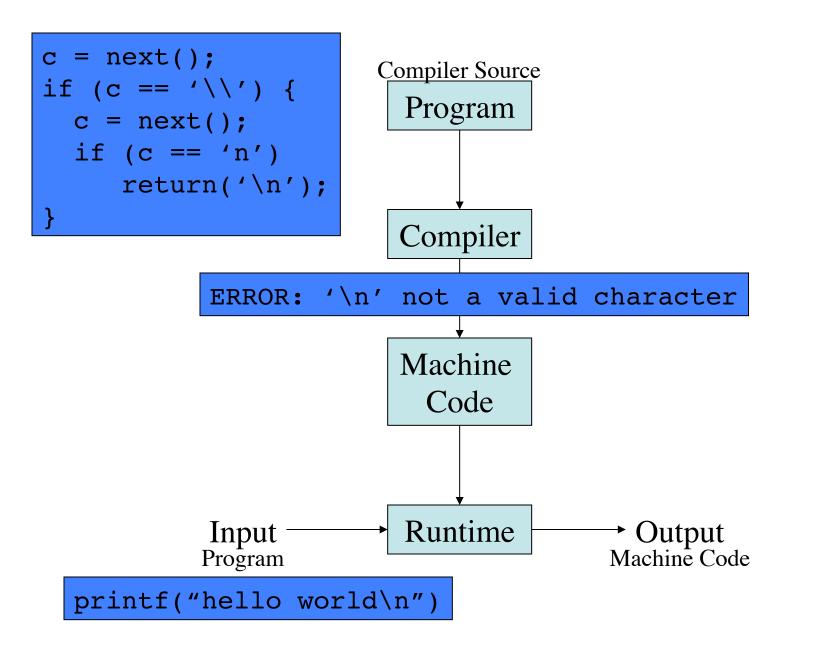
http://www.cs.sfu.ca/~anoop



main(){char *c="main(){char *c=%c%s%c;printf(c,34,c,34);}";printf(c,34,c,34);}

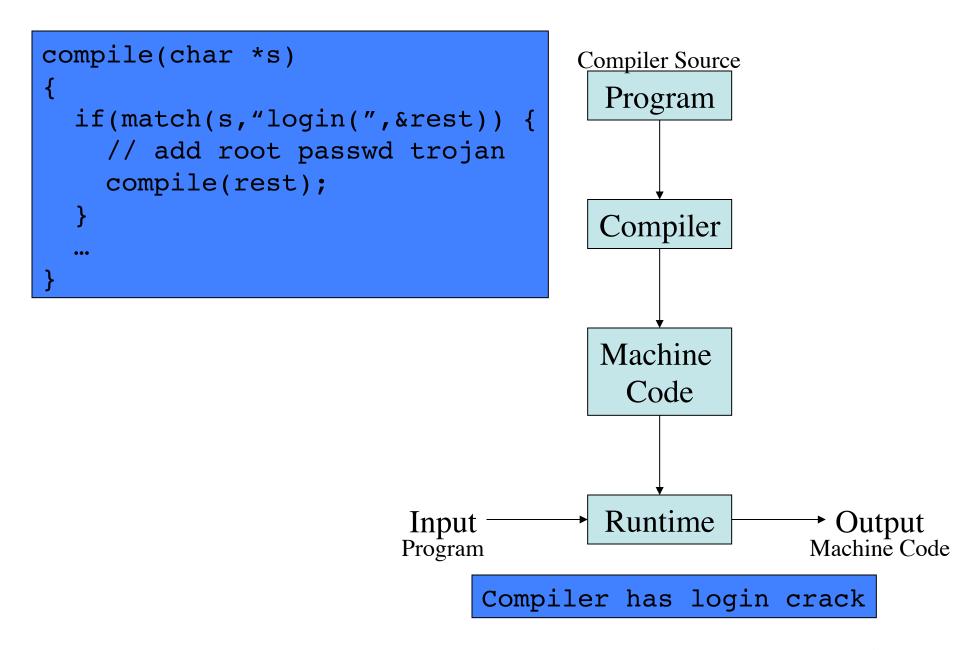




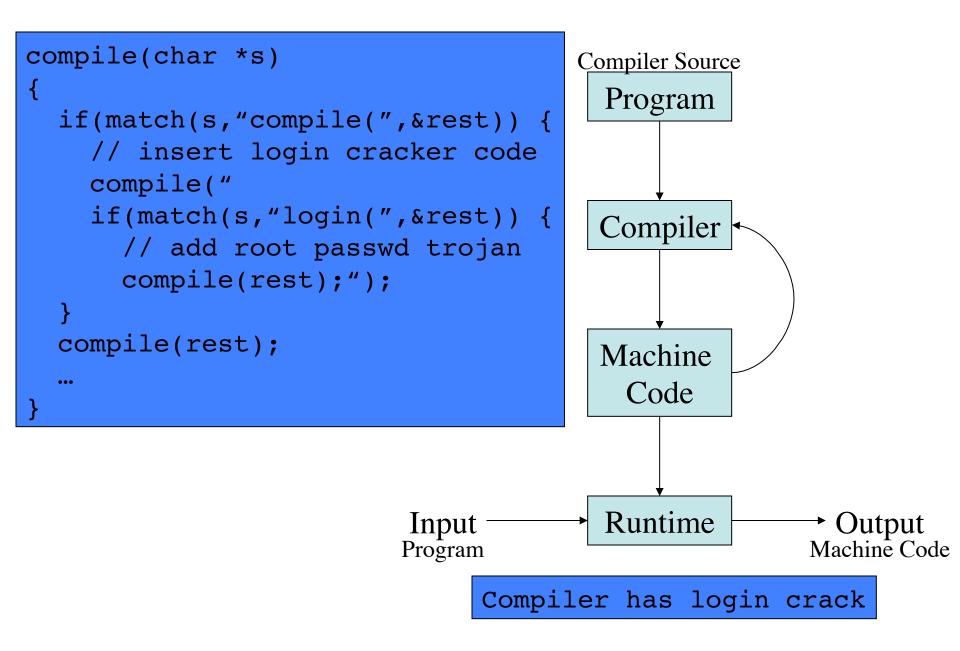


```
c = next();
                         Compiler Source
if (c == '\\') {
                          Program
  c = next();
  if (c == 'n')
     return(10);
                          Compiler
                          Machine
                            Code
                          Runtime
            Input
                                          → Output Machine Code
           Program
  printf("hello world\n")
```

```
c = next();
                       Compiler Source
if (c == '\\') {
                         Program
  c = next();
  if (c == 'n')
     return('\n');
                          New
                        Compiler
                        Machine
                           Code
                         Runtime
           Input
                                        Output
                                       Machine Code
           Program
  printf("hello world\n")
```



8



```
compile(char *s)
{
   // standard compiler code
   // no login crack
   ...
}
```

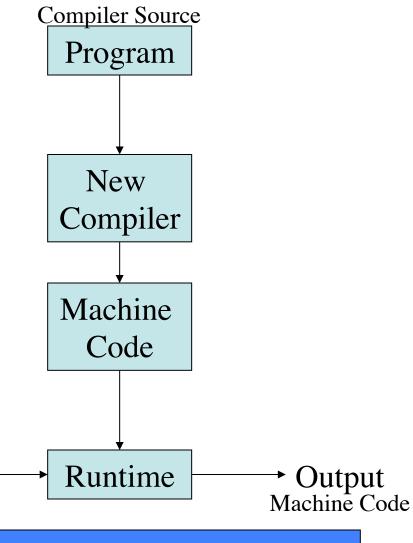
Input

Program

Reflections on Trusting Trust,

Ken Thompson.

CACM 27(8), pp. 761-763, 1984.



Compiler inserts login crack