

PCCC

Pseudocode C Compiler

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Compiler Construction

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Kenndaten

- Eingabesprache C (subset)
- Implementierungssprache C
- Ausgabesprache DLX Binärcode
- Datentypen
 - Integer, Character, Boolean
 - Arrays, Strings, Structs
 - typedef
- if else, while
- printf, malloc

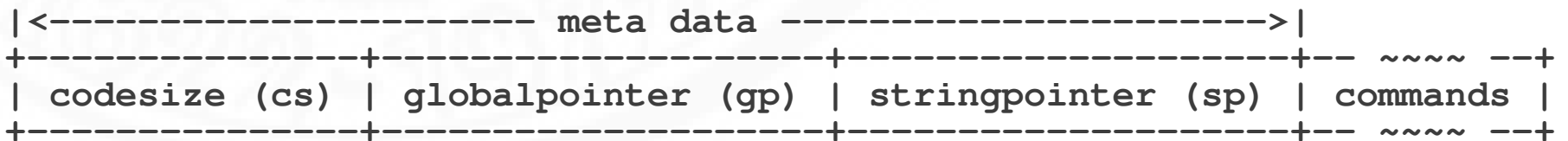
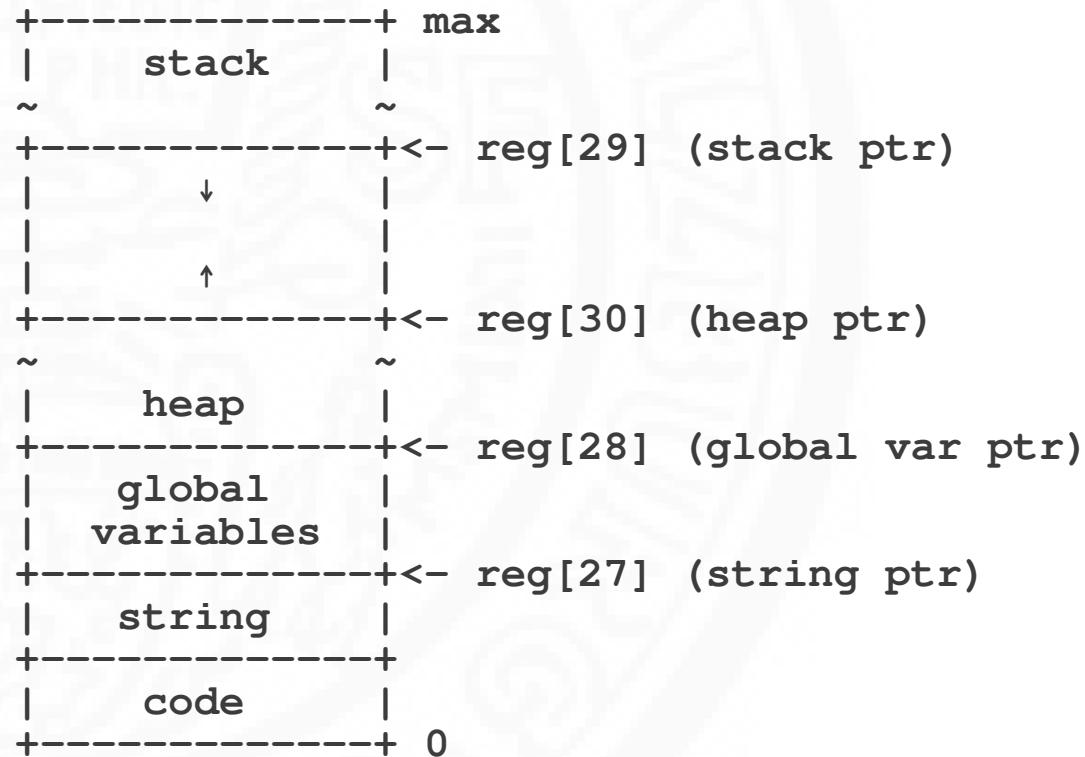
Kenndaten

- Prozeduren
- Bool'sche Operationen (lazy)
 - $<$, $>$, $==$, $!=$, $<=$, $>=$, $\&\&$, $||$
- Arithmetische Operationen
 - $+$, $-$, $*$, $/$
- Dateioperationen
 - open, close, read, write

Symbol Table

- Datenstruktur
 - Einfach verkettete Liste
- Funktionen
 - `insert (object_t head, object_t object)`
 - `lookUp (object_t head, char *name)`
 - `findProcedureObject (object_t head, char *name)`
- Implementierung
 - Globale Symbol Table
 - Lokale Symbol Table

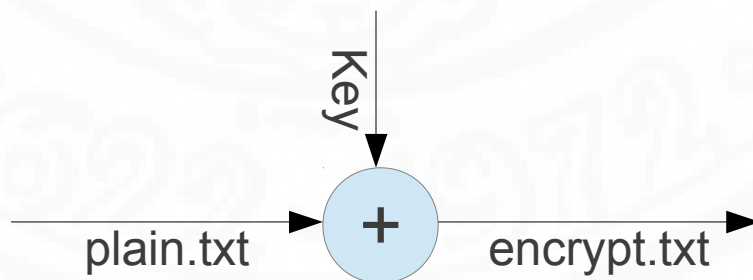
Target Machine



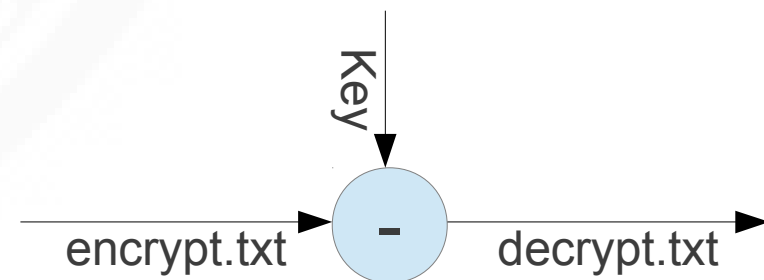
Demo

- Struct
- Procedure Calls
- File I/O
- if else, while
- Globale/lokale Variablen
- Array
- String
- printf

Verschlüsselung



Entschlüsselung





Danke,
für Ihre Aufmerksamkeit.