System architecture (1/4)

Passed chunk

Chunk
`string[]`

Dictionary file

Slave

Single word variations

Master

Dictionary
`string[]`

Chunk, code

result

Each word variation is being encrypted by the slave. The encryption result (code) is being compared to the passed code. If both codes are equal – the password is found (current word combination is the password).

Code

S2

Result:
- Password not found
- Password found (result = password)

Password

S3

Problem, solved by the Cracker
Which word (or its variation) stored in the dictionary file generates the specified code after encryption?

S4