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Student id:1828453

6CS005 LEARNING JOURNAL-SEMESTER 1 2018/19

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# 1.POSIX THREADS

## 1.1 Password Cracking

### 1a

Code:

#include <stdio.h>

#include <string.h>

#include <stdlib.h>

#include <crypt.h>

#include <time.h>

#include <pthread.h>

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*

Demonstrates how to crack an encrypted password using a simple

"brute force" algorithm. Works on passwords that consist only of 2

uppercase

letters and a 2 digit integer. Your personalised data set is included

in the

code.

Compile with:

cc -o CrackAZ99-With-Data CrackAZ99-With-Data.c -lcrypt -pthread -lrt

If you want to analyse the results then use the redirection operator

to send

output to a file that you can view using an editor or the less

utility:

./CrackAZ99-With-Data pthread -lrt > time n.txt

Dr Kevan Buckley, University of Wolverhampton, 2018

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*/

int n\_passwords = 4;

char \*encrypted\_passwords[] = {

"$6$KB$H8s0k9/1RQ783G9gF69Xkn.MI.Dq5Ox0va/dFlkknNjO7trgekVOjTv1BKCb.nm3vqxmtO2mOplhmFkwZXecz0",

"$6$KB$WksuNcTfYjZWjDC4Zt3ZAmQ38OrsWwHyDgf/grFJ2Sgg.qpOz56lMpBVfWYdQZa9Pksa2TJRVYVb3K.mbYx4Y1",

"$6$KB$0ZqvOLHpRgU9vLhzavKkL37MCDESwi2NDoTptnw4jyAjQGVtizjiKaluE60l1k7b.7YzDFU3biOo7Cr2SnvzT1",

"$6$KB$UwKD1iCsvhAryQWAH6o8C9B6dEtOUOhYCgBfwtvffD.Ycz83.8GZ/9dhfIyVodUtHRyUl8A8LRfCNSlx8Lb2O1"

};

void crack() {

int i;

pthread\_t thread1;

void \*crackpass();

for(i=0;i<n\_passwords;i++) {

pthread\_create(&thread1, NULL,crackpass, encrypted\_passwords[i]);

pthread\_join(thread1, NULL);

}

}

int time\_difference(struct timespec \*start,

struct timespec \*finish,

long long int \*difference) {

long long int ds = finish->tv\_sec - start->tv\_sec;

long long int dn = finish->tv\_nsec - start->tv\_nsec;

if(dn < 0 ) {

ds--;

dn += 1000000000;

}

\*difference = ds \* 1000000000 + dn;

return !(\*difference > 0);

}

/\*\*

Required by lack of standard function in C.

\*/

void substr(char \*dest, char \*src, int start, int length){

memcpy(dest, src + start, length);

\*(dest + length) = '\0';

}

/\*\*

This function can crack the kind of password explained above. All

combinations

that are tried are displayed and when the password is found, #, is put

at the

start of the line. Note that one of the most time consuming operations

that

it performs is the output of intermediate results, so performance

experiments

for this kind of program should not include this. i.e. comment out the

printfs.

\*/

void \*crackpass(char \*salt\_and\_encrypted){

int x, y, z; // Loop counters

char salt[7]; // String used in hashing the password. Need space

char plain[7]; // The combination of letters currently being checked

char \*enc; // Pointer to the encrypted password

int count = 0; // The number of combinations explored so far

substr(salt, salt\_and\_encrypted, 0, 6);

for(x='A'; x<='M'; x++){

for(y='A'; y<='Z'; y++){

for(z=0; z<=99; z++){

sprintf(plain, "%c%c%02d", x, y, z);

enc = (char \*) crypt(plain, salt);

count++;

if(strcmp(salt\_and\_encrypted, enc) == 0){

printf("#%-8d%s %s\n", count, plain, enc);

break;

} else {

printf(" %-8d%s %s\n", count, plain, enc);

}

}

}

}

printf("%d solutions explored\n", count);

}

int main(int argc, char \*argv[]){

struct timespec start, finish;

long long int time\_elapsed;

clock\_gettime(CLOCK\_MONOTONIC, &start);

crack();

clock\_gettime(CLOCK\_MONOTONIC, &finish);

time\_difference(&start, &finish, &time\_elapsed);

printf("Time elapsed was %lldns or %0.9lfs\n", time\_elapsed,

(time\_elapsed/1.0e9));

return 0;

}

### 1c.

#include <stdio.h>

#include <string.h>

#include <stdlib.h>

#include <crypt.h>

#include <time.h>

#include <pthread.h>

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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Dr Kevan Buckley, University of Wolverhampton, 2018

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"$6$KB$WksuNcTfYjZWjDC4Zt3ZAmQ38OrsWwHyDgf/grFJ2Sgg.qpOz56lMpBVfWYdQZa9Pksa2TJRVYVb3K.mbYx4Y1",

"$6$KB$0ZqvOLHpRgU9vLhzavKkL37MCDESwi2NDoTptnw4jyAjQGVtizjiKaluE60l1k7b.7YzDFU3biOo7Cr2SnvzT1",

"$6$KB$UwKD1iCsvhAryQWAH6o8C9B6dEtOUOhYCgBfwtvffD.Ycz83.8GZ/9dhfIyVodUtHRyUl8A8LRfCNSlx8Lb2O1"

};

void crack() {

int i;

pthread\_t thread1;

void \*crackpass();

for(i=0;i<n\_passwords;i++) {

pthread\_create(&thread1, NULL,crackpass, encrypted\_passwords[i]);

pthread\_join(thread1, NULL);

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int time\_difference(struct timespec \*start,

struct timespec \*finish,

long long int \*difference) {

long long int ds = finish->tv\_sec - start->tv\_sec;

long long int dn = finish->tv\_nsec - start->tv\_nsec;

if(dn < 0 ) {

ds--;

dn += 1000000000;

}

\*difference = ds \* 1000000000 + dn;

return !(\*difference > 0);

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/\*\*

Required by lack of standard function in C.

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void substr(char \*dest, char \*src, int start, int length){

memcpy(dest, src + start, length);

\*(dest + length) = '\0';

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/\*\*

This function can crack the kind of password explained above. All

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for this kind of program should not include this. i.e. comment out the

printfs.

\*/

void \*crackpass(char \*salt\_and\_encrypted){

int x, y, z,p,q; // Loop counters

char salt[7]; // String used in hashing the password. Need space

char plain[7]; // The combination of letters currently being checked

char \*enc; // Pointer to the encrypted password

int count = 0; // The number of combinations explored so far

substr(salt, salt\_and\_encrypted, 0, 6);

for(p='A'; p<='M'; p++){

for(x='A'; x<='M'; x++){

for(y='A'; y<='Z'; y++){

for(z=0; z<=99; z++){

for(q=0; q<=99; q++){

sprintf(plain, "%c%c%02d", x, y, z);

enc = (char \*) crypt(plain, salt);

count++;

if(strcmp(salt\_and\_encrypted, enc) == 0){

printf("#%-8d%s %s\n", count, plain, enc);

break;

} else {

printf(" %-8d%s %s\n", count, plain, enc);

}

}

}

}

}

}

printf("%d solutions explored\n", count);

}

int main(int argc, char \*argv[]){

struct timespec start, finish;

long long int time\_elapsed;

clock\_gettime(CLOCK\_MONOTONIC, &start);

crack();

clock\_gettime(CLOCK\_MONOTONIC, &finish);

time\_difference(&start, &finish, &time\_elapsed);

printf("Time elapsed was %lldns or %0.9lfs\n", time\_elapsed,

(time\_elapsed/1.0e9));

return 0;

}

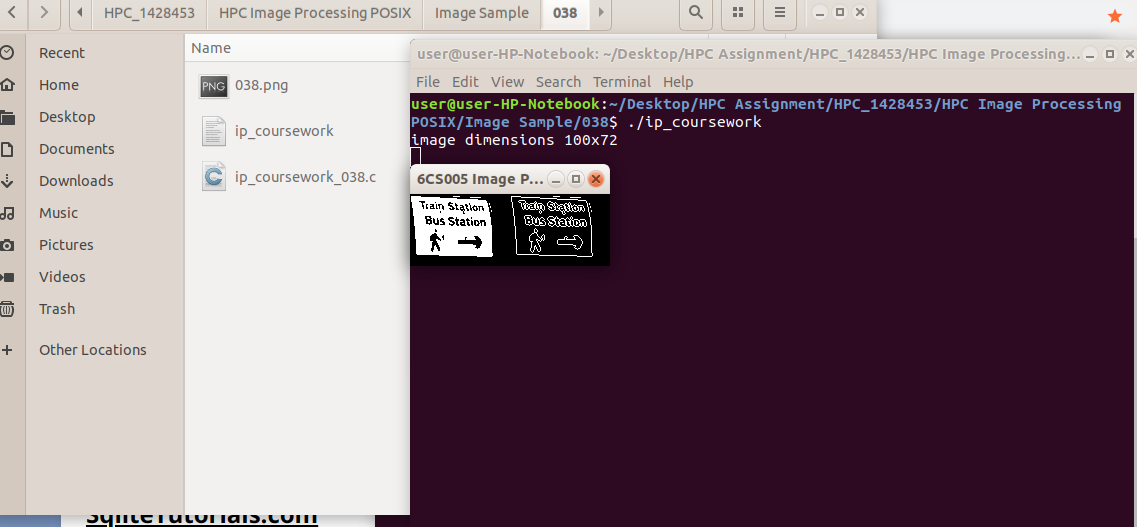
## 1.e

# Linear Regression

1.2 Image Processing

a. Output

c. Running time



SVN LOG

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

r24 | pasang.tenzing.sherpa | 2018-12-31 13:58:59 +0545 (Mon, 31 Dec 2018) | 1 line

Changed paths:

A /trunk/HPC Image Processing POSIX/Portfolio Task c/time.txt

image processing time calculated

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

r23 | pasang.tenzing.sherpa | 2018-12-31 13:56:16 +0545 (Mon, 31 Dec 2018) | 3 lines

Changed paths:

D /trunk/HPC Image Processing POSIX/Portfolio Task b

D /trunk/HPC Image Processing POSIX/Portfolio Task b/038.png

D /trunk/HPC Image Processing POSIX/Portfolio Task b/ip\_coursework\_038 (copy).c

D /trunk/HPC Image Processing POSIX/Portfolio Task b/ip\_coursework\_038.c

A /trunk/HPC Image Processing POSIX/Portfolio Task c

A /trunk/HPC Image Processing POSIX/Portfolio Task c/038.png

A /trunk/HPC Image Processing POSIX/Portfolio Task c/image processing a time.png

A /trunk/HPC Image Processing POSIX/Portfolio Task c/ip\_coursework

A /trunk/HPC Image Processing POSIX/Portfolio Task c/ip\_coursework038.c

A /trunk/HPC Image Processing POSIX/Portfolio task a/038

A /trunk/HPC Image Processing POSIX/Portfolio task a/038/038.png

A /trunk/HPC Image Processing POSIX/Portfolio task a/038/ip\_coursework

A /trunk/HPC Image Processing POSIX/Portfolio task a/038/ip\_coursework\_038.c

A /trunk/HPC Image Processing POSIX/Portfolio task a/image processing image.png

A /trunk/HPC Image Processing POSIX/portfolio task b

A /trunk/HPC Image Processing POSIX/portfolio task b/ip\_coursework

A /trunk/HPC Image Processing POSIX/portfolio task b/ip\_coursework038.c

Image processing

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

r22 | pasang.tenzing.sherpa | 2018-12-31 09:58:59 +0545 (Mon, 31 Dec 2018) | 1 line

Changed paths:

A /trunk/HPC Image Processing POSIX/pox

A /trunk/HPC Image Processing POSIX/pox/038.png

A /trunk/HPC Image Processing POSIX/pox/ip\_coursework\_38.c

D /trunk/HPC Password Cracking POSIX/CrackAZ99

D /trunk/HPC Password Cracking POSIX/CrackAZ99-With-Data

D /trunk/HPC Password Cracking POSIX/CrackAZ99-With-Data.c

D /trunk/HPC Password Cracking POSIX/Crack\_Multithread.c

D /trunk/HPC Password Cracking POSIX/output.txt

D /trunk/HPC Password Cracking POSIX/time interval/time1.txt

Password crackin

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

r21 | pasang.tenzing.sherpa | 2018-12-30 15:09:40 +0545 (Sun, 30 Dec 2018) | 3 lines

Changed paths:

M /trunk/HPC Password Cracking POSIX/time interval/CrackAZ99-With-Data

M /trunk/HPC Password Cracking POSIX/time interval/CrackAZ99-With-Data.c

M /trunk/HPC Password Cracking POSIX/time interval/time1.txt

TIme 1 records posix

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

r20 | pasang.tenzing.sherpa | 2018-12-30 14:23:50 +0545 (Sun, 30 Dec 2018) | 3 lines

Changed paths:

M /trunk/HPC Password Cracking POSIX/time interval/CrackAZ99-With-Data

A /trunk/HPC Password Cracking POSIX/time interval/CrackAZ99-With-Data (copy).c

M /trunk/HPC Password Cracking POSIX/time interval/CrackAZ99-With-Data.c

M /trunk/HPC Password Cracking POSIX/time interval/time1.txt

single thread password cracking

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

r19 | pasang.tenzing.sherpa | 2018-12-30 13:51:02 +0545 (Sun, 30 Dec 2018) | 1 line

Changed paths:

M /trunk/HPC Password Cracking POSIX/time interval/CrackAZ99-With-Data

M /trunk/HPC Password Cracking POSIX/time interval/CrackAZ99-With-Data.c

M /trunk/HPC Password Cracking POSIX/time interval/time1.txt

Password Cracking single thread

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

r18 | pasang.tenzing.sherpa | 2018-12-30 13:11:19 +0545 (Sun, 30 Dec 2018) | 1 line

Changed paths:

A /trunk/HPC Password Cracking POSIX/time interval/time1.txt

TIme interval 1

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

r17 | pasang.tenzing.sherpa | 2018-12-30 13:08:02 +0545 (Sun, 30 Dec 2018) | 3 lines

Changed paths:

A /trunk/HPC Password Cracking POSIX/CrackAZ99

A /trunk/HPC Password Cracking POSIX/CrackAZ99-With-Data

A /trunk/HPC Password Cracking POSIX/CrackAZ99-With-Data.c

A /trunk/HPC Password Cracking POSIX/Crack\_Multithread.c

M /trunk/HPC Password Cracking POSIX/PasswordCracking Code/CrackAZ99-With-Data

M /trunk/HPC Password Cracking POSIX/PasswordCracking Code/CrackAZ99-With-Data.c

A /trunk/HPC Password Cracking POSIX/PasswordCracking Code/output.txt

D /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time

D /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme Elapsed meantime 4.png

D /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme Elapsed meantime3.png

D /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme elapsed meantime 5.png

D /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme elapsed meantime 6.png

D /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme elapsed meantime 7.png

D /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme elapsed meantime 8.png

D /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme elapsed meantime 9.png

D /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/Time elapsed meantime 10.png

D /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/Time elapsed meantime-1.png

D /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/Time elapsed meantime-2.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time Screenshots

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time Screenshots/TIme Elapsed meantime 4.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time Screenshots/TIme Elapsed meantime3.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time Screenshots/TIme elapsed meantime 5.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time Screenshots/TIme elapsed meantime 6.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time Screenshots/TIme elapsed meantime 7.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time Screenshots/TIme elapsed meantime 8.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time Screenshots/TIme elapsed meantime 9.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time Screenshots/Time elapsed meantime 10.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time Screenshots/Time elapsed meantime-1.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time Screenshots/Time elapsed meantime-2.png

A /trunk/HPC Password Cracking POSIX/output.txt

A /trunk/HPC Password Cracking POSIX/time interval

A /trunk/HPC Password Cracking POSIX/time interval/CrackAZ99-With-Data

A /trunk/HPC Password Cracking POSIX/time interval/CrackAZ99-With-Data.c

Posix Password Cracking

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

r16 | pasang.tenzing.sherpa | 2018-12-28 20:53:39 +0545 (Fri, 28 Dec 2018) | 1 line

Changed paths:

A /trunk/HPC Linear Regression POSIX/linear regression sample/.ipynb\_checkpoints/Plotassignment-checkpoint.ipynb

A /trunk/HPC Linear Regression POSIX/linear regression sample/.ipynb\_checkpoints/Plotting-checkpoint.ipynb

A /trunk/HPC Linear Regression POSIX/linear regression sample/.ipynb\_checkpoints/Untitled1-checkpoint.ipynb

A /trunk/HPC Linear Regression POSIX/linear regression sample/.ipynb\_checkpoints/plot-checkpoint.ipynb

A /trunk/HPC Linear Regression POSIX/linear regression sample/Plotassignment.ipynb

A /trunk/HPC Linear Regression POSIX/linear regression sample/Plotting.ipynb

A /trunk/HPC Linear Regression POSIX/linear regression sample/Untitled.ipynb

A /trunk/HPC Linear Regression POSIX/linear regression sample/Untitled1.ipynb

A /trunk/HPC Linear Regression POSIX/linear regression sample/dataset.csv

M /trunk/HPC Linear Regression POSIX/linear regression sample/lr\_coursework

A /trunk/HPC Linear Regression POSIX/linear regression sample/lr\_coursework38

M /trunk/HPC Linear Regression POSIX/linear regression sample/lr\_coursework38.c

A /trunk/HPC Linear Regression POSIX/linear regression sample/lr\_courseworkedited.c

M /trunk/HPC Linear Regression POSIX/linear regression sample/plot.ipynb

A /trunk/HPC Linear Regression POSIX/linear regression sample/test

A /trunk/HPC Linear Regression POSIX/linear regression sample/test/libreoffice

A /trunk/HPC Linear Regression POSIX/linear regression sample/test/line-plot-03

A /trunk/HPC Linear Regression POSIX/linear regression sample/test/line-plot-03 (another copy).c

A /trunk/HPC Linear Regression POSIX/linear regression sample/test/line-plot-03.c

LInear regression

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

r15 | pasang.tenzing.sherpa | 2018-12-28 18:57:16 +0545 (Fri, 28 Dec 2018) | 1 line

Changed paths:

M /trunk/HPC Linear Regression POSIX/linear regression sample/lr\_coursework38.c

Linear Regression Sample

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

r14 | pasang.tenzing.sherpa | 2018-12-28 17:40:48 +0545 (Fri, 28 Dec 2018) | 1 line

Changed paths:

D /trunk/HPC Linear Regression POSIX/linear regression sample/Untitled.ipynb

A /trunk/HPC Linear Regression POSIX/linear regression sample/loaddataset.csv

A /trunk/HPC Linear Regression POSIX/linear regression sample/plot.ipynb

Dataset load

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

r13 | pasang.tenzing.sherpa | 2018-12-28 17:37:52 +0545 (Fri, 28 Dec 2018) | 2 lines

Changed paths:

A /trunk/HPC Image Processing POSIX/Portfolio Task b

A /trunk/HPC Image Processing POSIX/Portfolio Task b/038.png

A /trunk/HPC Image Processing POSIX/Portfolio Task b/ip\_coursework\_038 (copy).c

A /trunk/HPC Image Processing POSIX/Portfolio Task b/ip\_coursework\_038.c

D /trunk/HPC Image Processing POSIX/Portfolio task 1

D /trunk/HPC Image Processing POSIX/Portfolio task 1/image x72.png

A /trunk/HPC Image Processing POSIX/Portfolio task a

A /trunk/HPC Image Processing POSIX/Portfolio task a/image x72.png

A /trunk/HPC Image Processing POSIX/time

A /trunk/HPC Image Processing POSIX/time/factorise\_3\_4

A /trunk/HPC Image Processing POSIX/time/factorise\_3\_4.c

A /trunk/HPC Linear Regression POSIX

A /trunk/HPC Linear Regression POSIX/linear regression sample

A /trunk/HPC Linear Regression POSIX/linear regression sample/.ipynb\_checkpoints

A /trunk/HPC Linear Regression POSIX/linear regression sample/.ipynb\_checkpoints/Untitled-checkpoint.ipynb

A /trunk/HPC Linear Regression POSIX/linear regression sample/Untitled.ipynb

A /trunk/HPC Linear Regression POSIX/linear regression sample/lr\_coursework

A /trunk/HPC Linear Regression POSIX/linear regression sample/lr\_coursework38 original.c

A /trunk/HPC Linear Regression POSIX/linear regression sample/lr\_coursework38.c

A /trunk/HPC Password Cracking POSIX/PasswordCracking Code/CrackAZ99-With-Data (copy).c

HPC Compile

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

r12 | pasang.tenzing.sherpa | 2018-12-27 15:24:40 +0545 (Thu, 27 Dec 2018) | 3 lines

Changed paths:

A /trunk/HPC Image Processing POSIX/JOURNAL

A /trunk/HPC Image Processing POSIX/JOURNAL/IMage Processing.png

A /trunk/HPC Image Processing POSIX/JOURNAL/IMage processing.docx

Image processing Journal resources

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

r11 | pasang.tenzing.sherpa | 2018-12-26 22:51:58 +0545 (Wed, 26 Dec 2018) | 1 line

Changed paths:

A /trunk/HPC Image Processing POSIX/Image Sample

A /trunk/HPC Image Processing POSIX/Image Sample/038

A /trunk/HPC Image Processing POSIX/Image Sample/038/038.png

A /trunk/HPC Image Processing POSIX/Image Sample/038/ip\_coursework

A /trunk/HPC Image Processing POSIX/Image Sample/038/ip\_coursework\_038.c

A /trunk/HPC Image Processing POSIX/Image Sample/038.tgz

A /trunk/HPC Image Processing POSIX/Image Sample/image processing image.png

A /trunk/HPC Image Processing POSIX/Image Sample/image x72.png

D /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample

D /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample/038

D /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample/038/038.png

D /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample/038/ip\_coursework

D /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample/038/ip\_coursework\_038.c

D /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample/038.tgz

D /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample/image processing image.png

D /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample/image x72.png

A /trunk/HPC Image Processing POSIX/Portfolio task 1/image x72.png

Image Processing POSIX

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

r10 | pasang.tenzing.sherpa | 2018-12-26 21:23:06 +0545 (Wed, 26 Dec 2018) | 1 line

Changed paths:

A /trunk/HPC Image Processing POSIX

A /trunk/HPC Image Processing POSIX/Portfolio task 1

A /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample

A /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample/038

A /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample/038/038.png

A /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample/038/ip\_coursework

A /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample/038/ip\_coursework\_038.c

A /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample/038.tgz

A /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample/image processing image.png

A /trunk/HPC Image Processing POSIX/Portfolio task 1/Image Sample/image x72.png

(HPC )Image Processing POSIX Thread

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

r9 | pasang.tenzing.sherpa | 2018-12-26 19:44:32 +0545 (Wed, 26 Dec 2018) | 1 line

Changed paths:

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme elapsed meantime 9.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/Time elapsed meantime 10.png

Meantime 10

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

r8 | pasang.tenzing.sherpa | 2018-12-26 19:28:13 +0545 (Wed, 26 Dec 2018) | 3 lines

Changed paths:

D /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme Elapsed Meantime3.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme Elapsed meantime3.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme elapsed meantime 6.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme elapsed meantime 7.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme elapsed meantime 8.png

Meantime 8

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

r7 | pasang.tenzing.sherpa | 2018-12-26 19:21:10 +0545 (Wed, 26 Dec 2018) | 3 lines

Merge remote-tracking branch 'CanderKage/master'

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

r6 | pasang.tenzing.sherpa | 2018-12-26 18:44:19 +0545 (Wed, 26 Dec 2018) | 3 lines

time estimation meantime 5

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

r5 | pasang.tenzing.sherpa | 2018-12-26 19:14:45 +0545 (Wed, 26 Dec 2018) | 1 line

Changed paths:

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme elapsed meantime 5.png

M /trunk/README.md

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

r4 | pasang.tenzing.sherpa | 2018-12-26 18:34:45 +0545 (Wed, 26 Dec 2018) | 1 line

Changed paths:

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme Elapsed meantime 4.png

Time Elapsed meantime 4th run

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r3 | pasang.tenzing.sherpa | 2018-12-26 18:24:16 +0545 (Wed, 26 Dec 2018) | 3 lines

Changed paths:

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/TIme Elapsed Meantime3.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/Time elapsed meantime-1.png

A /trunk/HPC Password Cracking POSIX/PasswordCracking with Mean time/Time elapsed meantime-2.png

Calculation of meantime

third run

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r2 | pasang.tenzing.sherpa | 2018-12-26 16:33:06 +0545 (Wed, 26 Dec 2018) | 2 lines

Changed paths:

A /trunk/HPC Password Cracking POSIX

A /trunk/HPC Password Cracking POSIX/PasswordCracking Code

A /trunk/HPC Password Cracking POSIX/PasswordCracking Code/CrackAZ99-With-Data

A /trunk/HPC Password Cracking POSIX/PasswordCracking Code/CrackAZ99-With-Data.c

HIgh Performance Computing Password Cracking COmpile Code

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r1 | pasang.tenzing.sherpa | 2018-12-26 16:32:08 +0545 (Wed, 26 Dec 2018) | 3 lines

Changed paths:

A /branches

A /trunk

A /trunk/README.md

Initial commit

Password Cracking Compile code

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