

## Kratak opis formata izvješća

Svaka datoteka obrađuje se nizom testova. Ispisuje se ime datoteke i njezina veličina. Potom slijedi informacija od kojeg se bajta čita te koliko je bajtova uzeto u obradu (trenutno se cilja točno polovica datoteke, te 7462 bajta zbog najmanje datoteke u testu).

Potom sljede rezultati testova u obliku tablice. Stupci su:

- Ime testa, a neki dodatno imaju i parametar testa
- Rezultat testa - obično je broj ili hi kvadrat vrijednost
- Vjerojatnost da uzorak slučajan - ako je  $p > 0.01$  smatramo da jest
- Neki dodatni međurezultati koji bi se mogli pokazati kao korisnim tijekom strojnog učenja

## Izvješće od 26. travnja

```
File 0: C:\java\diplomski\MP4 Flo Rida - Whistle [Official Video].mp4 77874
kB
Testing from byte 39871796, block is 7462
Frequency test                                0,02                random (p = 0,98)
Ones=3732,00      Frequency=2,00
Block frequency test 128b                     167,56                (p = 0,00)
Sum=0,33
Block frequency test 256b                     112,03                (p = 0,00)
Sum=0,11
RLE test                                       3773,00               random (p = 0,33)
FlipOnes=1886,00    FlipZeroes=1887,00
Binary matrix rank test                      2,97                  random (p = 0,23)
F_30=1,00
Longest run of ones test                     15,38                (p = 0,01)
v_n_obs=6,00
DFT spectral test                           3549,00               random (p = 0,63)
D=0,48
Universal test                               -1,00                (p = -1,00)
Linear complexity processor - 1000           3,00                  random (p = 0,81)
Serial processor (8)                        144,26                random (p = 0,15)
Del2=63,88      psim1=173,30      psim2=92,92      p_value1=0,15
p_value2=0,48
Approximate entropy test, 8b                 292,26                random (p = 0,06)
apen=0,67
Cumulative sums test - forward               123,00                random (p = 0,31)
sum2=0,15
Cumulative sums test - backward              125,00                random (p = 0,30)
sum2=0,15
Random excursions test                       7,31                  random (p = 0,20)
Random excursions variant test (0)          81,00                  random (p = 0,50)
```

```
File 1: C:\java\diplomski\MP4 Rihanna - We Found Love ft. Calvin Harris.mp4
62390 kB
Testing from byte 31943726, block is 7462
```

|                                                                |             |                   |
|----------------------------------------------------------------|-------------|-------------------|
| Frequency test                                                 | 0,14        | random (p = 0,89) |
| Ones=3725,00      Frequency=-12,00                             |             |                   |
| Block frequency test 128b                                      | 49,06       | random (p = 0,79) |
| Sum=0,10                                                       |             |                   |
| Block frequency test 256b                                      | 23,47       | random (p = 0,75) |
| Sum=0,02                                                       |             |                   |
| RLE test                                                       | 3730,00     | random (p = 0,98) |
| FlipOnes=1865,00      FlipZeroes=1865,00                       |             |                   |
| Binary matrix rank test                                        | 2,97        | random (p = 0,23) |
| F_30=1,00                                                      |             |                   |
| Longest run of ones test                                       | 5,24        | random (p = 0,39) |
| v_n_obs=9,00                                                   |             |                   |
| DFT spectral test                                              | 3542,00     | random (p = 0,79) |
| D=-0,26                                                        |             |                   |
| Universal test                                                 | -1,00       | (p = -1,00)       |
| Linear complexity processor - 1000                             | 5,57        | random (p = 0,47) |
| Serial processor (8)                                           | 120,69      | random (p = 0,66) |
| Del2=54,74      psim1=120,50                                   | psim2=54,54 | p_value1=0,66     |
| p_value2=0,79                                                  |             |                   |
| Approximate entropy test, 8b                                   | 246,50      | random (p = 0,65) |
| apen=0,68                                                      |             |                   |
| Cumulative sums test - forward                                 | 60,00       | random (p = 0,90) |
| sum2=0,45                                                      |             |                   |
| Cumulative sums test - backward                                | 72,00       | random (p = 0,78) |
| sum2=0,39                                                      |             |                   |
| Random excursions test                                         | 4,10        | random (p = 0,54) |
| Random excursions variant test (0)                             | 184,00      | random (p = 1,00) |
| File 2: C:\java\diplomski\MP4 PSY - GANGNAM STYLE.mp4 90895 kB |             |                   |
| Testing from byte 46538378, block is 7462                      |             |                   |
| Frequency test                                                 | 0,51        | random (p = 0,61) |
| Ones=3709,00      Frequency=-44,00                             |             |                   |
| Block frequency test 128b                                      | 50,53       | random (p = 0,75) |
| Sum=0,10                                                       |             |                   |
| Block frequency test 256b                                      | 22,92       | random (p = 0,78) |
| Sum=0,02                                                       |             |                   |
| RLE test                                                       | 3712,00     | random (p = 0,66) |
| FlipOnes=1856,00      FlipZeroes=1856,00                       |             |                   |
| Binary matrix rank test                                        | 0,75        | random (p = 0,69) |
| F_30=1,00                                                      |             |                   |
| Longest run of ones test                                       | 6,76        | random (p = 0,24) |
| v_n_obs=4,00                                                   |             |                   |
| DFT spectral test                                              | 3532,00     | random (p = 0,19) |
| D=-1,32                                                        |             |                   |
| Universal test                                                 | -1,00       | (p = -1,00)       |
| Linear complexity processor - 1000                             | 1,00        | random (p = 0,99) |
| Serial processor (8)                                           | 131,22      | random (p = 0,40) |
| Del2=59,64      psim1=137,48                                   | psim2=65,90 | p_value1=0,40     |
| p_value2=0,63                                                  |             |                   |
| Approximate entropy test, 8b                                   | 256,80      | random (p = 0,47) |

```

apen=0,68
Cumulative sums test - forward          66,00      random (p = 0,85)
sum2=0,42
Cumulative sums test - backward          69,00      random (p = 0,82)
sum2=0,41
Random excursions test                   8,77      random (p = 0,12)
Random excursions variant test (0)       100,00     random (p = 0,37)

File 3: C:\java\diplomski\PDF Java book.pdf 3287 kB
Testing from byte 1683051, block is 7462
Frequency test                           1,99      random (p = 0,05)
Ones=3817,00      Frequency=172,00
Block frequency test 128b                 115,69     (p = 0,00)
Sum=0,23
Block frequency test 256b                 85,34     (p = 0,00)
Sum=0,08
RLE test                                3725,00    random (p = 0,93)
FlipOnes=1863,00      FlipZeroes=1862,00
Binary matrix rank test                   2,40      random (p = 0,30)
F_30=0,00
Longest run of ones test                  21,63     (p = 0,00)
v_n_obs=4,00
DFT spectral test                        3538,00    random (p = 0,49)
D=-0,69
Universal test                           -1,00     (p = -1,00)
Linear complexity processor - 1000        15,57     random (p = 0,02)
Serial processor (8)                     269,07     (p = 0,00)
Del2=139,46      psim1=302,29      psim2=172,68      p_value1=0,00
p_value2=0,00
Approximate entropy test, 8b              526,62     (p = 0,00)
apen=0,66
Cumulative sums test - forward          177,00     random (p = 0,08)
sum2=0,04
Cumulative sums test - backward          291,00     (p = 0,00)
sum2=0,00
Random excursions test                    3,73      random (p = 0,59)
Random excursions variant test (0)       78,00     random (p = 0,87)

File 4: C:\java\diplomski\PDF NIST paper.pdf 7399 kB
Testing from byte 3788513, block is 7462
Frequency test                           3,61      (p = 0,00)
Ones=3887,00      Frequency=312,00
Block frequency test 128b                 68,31     random (p = 0,17)
Sum=0,13
Block frequency test 256b                 45,12     random (p = 0,03)
Sum=0,04
RLE test                                3754,00    random (p = 0,49)
FlipOnes=1877,00      FlipZeroes=1877,00
Binary matrix rank test                   0,01      random (p = 1,00)
F_30=1,00
Longest run of ones test                  3,90      random (p = 0,56)

```

```
v_n_obs=9,00
DFT spectral test          3535,00      random (p = 0,32)
D=-1,00
Universal test             -1,00      (p = -1,00)
Linear complexity processor - 1000  6,71      random (p = 0,35)
Serial processor (8)       266,77      (p = 0,00)
Del2=90,61      psim1=488,61      psim2=312,45      p_value1=0,00
p_value2=0,02
Approximate entropy test, 8b      453,94      (p = 0,00)
apen=0,66
Cumulative sums test - forward      315,00      (p = 0,00)
sum2=0,00
Cumulative sums test - backward      330,00      (p = 0,00)
sum2=0,00
Random excursions test          4,47      random (p = 0,48)
Random excursions variant test (0)  29,00      random (p = 0,33)
```

File 5: C:\java\diplomski\PDF Small text.pdf 21 kB

Testing from byte 11240, block is 7462

```
Frequency test          3,38      (p = 0,00)
Ones=3877,00      Frequency=292,00
Block frequency test 128b      63,06      random (p = 0,30)
Sum=0,12
Block frequency test 256b      39,84      random (p = 0,09)
Sum=0,04
RLE test          3650,00      random (p = 0,08)
FlipOnes=1825,00      FlipZeroes=1825,00
Binary matrix rank test      2,97      random (p = 0,23)
F_30=1,00
Longest run of ones test      16,15      (p = 0,01)
v_n_obs=6,00
DFT spectral test          3534,00      random (p = 0,27)
D=-1,11
Universal test             -1,00      (p = -1,00)
Linear complexity processor - 1000  2,43      random (p = 0,88)
Serial processor (8)       260,97      (p = 0,00)
Del2=91,55      psim1=520,14      psim2=350,72      p_value1=0,00
p_value2=0,01
Approximate entropy test, 8b      466,21      (p = 0,00)
apen=0,66
Cumulative sums test - forward      296,00      (p = 0,00)
sum2=0,00
Cumulative sums test - backward      326,00      (p = 0,00)
sum2=0,00
Random excursions test          4,88      random (p = 0,43)
Random excursions variant test (0)  26,00      random (p = 0,63)
```

File 6: C:\java\diplomski\PDF Zet 238.pdf 12 kB

Testing from byte 6462, block is 7462

```
Frequency test          1,13      random (p = 0,26)
```

|                                    |                    |              |               |
|------------------------------------|--------------------|--------------|---------------|
| Ones=3682,00                       | Frequency=-98,00   |              |               |
| Block frequency test 128b          | 63,31              | random       | (p = 0,29)    |
| Sum=0,12                           |                    |              |               |
| Block frequency test 256b          | 34,94              | random       | (p = 0,21)    |
| Sum=0,03                           |                    |              |               |
| RLE test                           | 3827,00            | random       | (p = 0,03)    |
| FlipOnes=1914,00                   | FlipZeroes=1913,00 |              |               |
| Binary matrix rank test            | 1,73               | random       | (p = 0,42)    |
| F_30=2,00                          |                    |              |               |
| Longest run of ones test           | 21,62              | (p = 0,00)   |               |
| v_n_obs=5,00                       |                    |              |               |
| DFT spectral test                  | 3543,00            | random       | (p = 0,88)    |
| D=-0,15                            |                    |              |               |
| Universal test                     | -1,00              | (p = -1,00)  |               |
| Linear complexity processor - 1000 | 1,57               | random       | (p = 0,95)    |
| Serial processor (8)               | 240,73             | (p = 0,00)   |               |
| Del2=89,58                         | psim1=308,61       | psim2=157,45 | p_value1=0,00 |
| p_value2=0,02                      |                    |              |               |
| Approximate entropy test, 8b       | 402,44             | (p = 0,00)   |               |
| apen=0,67                          |                    |              |               |
| Cumulative sums test - forward     | 113,00             | random       | (p = 0,38)    |
| sum2=0,19                          |                    |              |               |
| Cumulative sums test - backward    | 159,00             | random       | (p = 0,13)    |
| sum2=0,07                          |                    |              |               |
| Random excursions test             | 2,57               | random       | (p = 0,77)    |
| Random excursions variant test (0) | 88,00              | random       | (p = 0,66)    |

File 7: C:\java\diplomski\PNG Android screenshot.png 86 kB

Testing from byte 44120, block is 7462

|                                    |                    |              |               |
|------------------------------------|--------------------|--------------|---------------|
| Frequency test                     | 4,33               | (p = 0,00)   |               |
| Ones=3918,00                       | Frequency=374,00   |              |               |
| Block frequency test 128b          | 203,12             | (p = 0,00)   |               |
| Sum=0,40                           |                    |              |               |
| Block frequency test 256b          | 148,72             | (p = 0,00)   |               |
| Sum=0,15                           |                    |              |               |
| RLE test                           | 3784,00            | random       | (p = 0,15)    |
| FlipOnes=1892,00                   | FlipZeroes=1892,00 |              |               |
| Binary matrix rank test            | 0,01               | random       | (p = 1,00)    |
| F_30=1,00                          |                    |              |               |
| Longest run of ones test           | 11,85              | random       | (p = 0,04)    |
| v_n_obs=7,00                       |                    |              |               |
| DFT spectral test                  | 3535,00            | random       | (p = 0,32)    |
| D=-1,00                            |                    |              |               |
| Universal test                     | -1,00              | (p = -1,00)  |               |
| Linear complexity processor - 1000 | 8,14               | random       | (p = 0,23)    |
| Serial processor (8)               | 232,47             | (p = 0,00)   |               |
| Del2=103,49                        | psim1=336,02       | psim2=207,04 | p_value1=0,00 |
| p_value2=0,00                      |                    |              |               |
| Approximate entropy test, 8b       | 409,32             | (p = 0,00)   |               |
| apen=0,67                          |                    |              |               |
| Cumulative sums test - forward     | 400,00             | (p = 0,00)   |               |

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sum2=0,00
Cumulative sums test - backward          396,00      (p = 0,00)
sum2=0,00
Random excursions test                   2,03      random (p = 0,85)
Random excursions variant test (0)       51,00      random (p = 0,88)

File 8: C:\java\diplomski\PNG Fedora18-wallpaper-wide.png 3539 kB
Testing from byte 1811976, block is 7462
Frequency test                           4,28      (p = 0,00)
Ones=3916,00      Frequency=370,00
Block frequency test 128b                76,00      random (p = 0,06)
Sum=0,15
Block frequency test 256b                59,84      (p = 0,00)
Sum=0,06
RLE test                                3823,00      random (p = 0,02)
FlipOnes=1912,00      FlipZeroes=1911,00
Binary matrix rank test                  2,40      random (p = 0,30)
F_30=0,00
Longest run of ones test                 7,12      random (p = 0,21)
v_n_obs=8,00
DFT spectral test                       3542,00      random (p = 0,79)
D=-0,26
Universal test                          -1,00      (p = -1,00)
Linear complexity processor - 1000       3,86      random (p = 0,70)
Serial processor (8)                    255,73      (p = 0,00)
Del2=92,25      psim1=422,26      psim2=258,79      p_value1=0,00
p_value2=0,01
Approximate entropy test, 8b            428,46      (p = 0,00)
apen=0,66
Cumulative sums test - forward           371,00      (p = 0,00)
sum2=0,00
Cumulative sums test - backward          371,00      (p = 0,00)
sum2=0,00
Random excursions test                   0,43      random (p = 0,99)
Random excursions variant test (0)       0,00      random (p = 0,77)

```

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File 9: C:\java\diplomski\PNG stara ilica.png 837 kB
Testing from byte 428563, block is 7462
Frequency test                           0,81      random (p = 0,42)
Ones=3696,00      Frequency=-70,00
Block frequency test 128b                68,62      random (p = 0,16)
Sum=0,13
Block frequency test 256b                20,47      random (p = 0,88)
Sum=0,02
RLE test                                3679,00      random (p = 0,23)
FlipOnes=1839,00      FlipZeroes=1840,00
Binary matrix rank test                  1,41      random (p = 0,49)
F_30=0,00
Longest run of ones test                 8,89      random (p = 0,11)
v_n_obs=6,00

```

|                                              |              |                   |
|----------------------------------------------|--------------|-------------------|
| DFT spectral test                            | 3541,00      | random (p = 0,71) |
| D=-0,37                                      |              |                   |
| Universal test                               | -1,00        | (p = -1,00)       |
| Linear complexity processor - 1000           | 3,86         | random (p = 0,70) |
| Serial processor (8)                         | 162,41       | random (p = 0,02) |
| Del2=61,87                      psim1=216,35 | psim2=115,82 | p_value1=0,02     |
| p_value2=0,55                                |              |                   |
| Approximate entropy test, 8b                 | 325,64       | (p = 0,00)        |
| apen=0,67                                    |              |                   |
| Cumulative sums test - forward               | 100,00       | random (p = 0,49) |
| sum2=0,25                                    |              |                   |
| Cumulative sums test - backward              | 116,00       | random (p = 0,36) |
| sum2=0,18                                    |              |                   |
| Random excursions test                       | 10,64        | random (p = 0,06) |
| Random excursions variant test (0)           | 7,00         | random (p = 0,52) |

File 10: C:\java\diplomski\TXT Batch File Programming.txt 41 kB

Testing from byte 21350, block is 7462

|                                                          |               |                   |
|----------------------------------------------------------|---------------|-------------------|
| Frequency test                                           | 10,07         | (p = 0,00)        |
| Ones=3296,00                      Frequency=-870,00      |               |                   |
| Block frequency test 128b                                | 158,41        | (p = 0,00)        |
| Sum=0,31                                                 |               |                   |
| Block frequency test 256b                                | 124,80        | (p = 0,00)        |
| Sum=0,12                                                 |               |                   |
| RLE test                                                 | 3836,00       | (p = 0,00)        |
| FlipOnes=1918,00                      FlipZeroes=1918,00 |               |                   |
| Binary matrix rank test                                  | 45,38         | (p = 0,00)        |
| F_30=7,00                                                |               |                   |
| Longest run of ones test                                 | 436,02        | (p = 0,00)        |
| v_n_obs=3,00                                             |               |                   |
| DFT spectral test                                        | 3635,00       | (p = 0,00)        |
| D=9,62                                                   |               |                   |
| Universal test                                           | -1,00         | (p = -1,00)       |
| Linear complexity processor - 1000                       | 4,43          | random (p = 0,62) |
| Serial processor (8)                                     | 3307,45       | (p = 0,00)        |
| Del2=1469,65                      psim1=3962,87          | psim2=2125,07 | p_value1=0,00     |
| p_value2=0,00                                            |               |                   |
| Approximate entropy test, 8b                             | 3577,93       | (p = 0,00)        |
| apen=0,45                                                |               |                   |
| Cumulative sums test - forward                           | 871,00        | (p = 0,00)        |
| sum2=0,00                                                |               |                   |
| Cumulative sums test - backward                          | 871,00        | (p = 0,00)        |
| sum2=0,00                                                |               |                   |
| Random excursions test                                   | 8,02          | random (p = 0,16) |
| Random excursions variant test (0)                       | 22,00         | random (p = 0,33) |

File 11: C:\java\diplomski\TXT fer.hr.html 210 kB

Testing from byte 107957, block is 7462

|                                                      |         |            |
|------------------------------------------------------|---------|------------|
| Frequency test                                       | 22,94   | (p = 0,00) |
| Ones=2740,00                      Frequency=-1982,00 |         |            |
| Block frequency test 128b                            | 1183,88 | (p = 0,00) |

```

Sum=2,31
Block frequency test 256b          1028,38      (p = 0,00)
Sum=1,00
RLE test                          3286,00      (p = 0,00)
Flip0nes=1643,00    FlipZeroes=1643,00
Binary matrix rank test          45,38      (p = 0,00)
F_30=7,00
Longest run of ones test        159,44      (p = 0,00)
v_n_obs=4,00
DFT spectral test               3643,00      (p = 0,00)
D=10,47
Universal test                   -1,00      (p = -1,00)
Linear complexity processor - 1000 3,29      random (p = 0,77)
Serial processor (8)            12308,52    (p = 0,00)
Del2=7563,60    psim1=11935,54    psim2=7190,62    p_value1=0,00
p_value2=0,00
Approximate entropy test, 8b     4417,97    (p = 0,00)
apen=0,40
Cumulative sums test - forward   1993,00    (p = 0,00)
sum2=0,00
Cumulative sums test - backward  1986,00    (p = 0,00)
sum2=0,00
Random excursions test          11,46      random (p = 0,04)
Random excursions variant test (0) 2,00      random (p = 0,82)

File 12: C:\java\diplomski\TXT sol.py 14 kB
Testing from byte 7462, block is 7462
Frequency test                   6,78      (p = 0,00)
Ones=3438,00    Frequency=-586,00
Block frequency test 128b        92,09      (p = 0,00)
Sum=0,18
Block frequency test 256b        62,30      (p = 0,00)
Sum=0,06
RLE test                       3906,00      (p = 0,00)
Flip0nes=1953,00    FlipZeroes=1953,00
Binary matrix rank test          45,38      (p = 0,00)
F_30=7,00
Longest run of ones test        251,38      (p = 0,00)
v_n_obs=4,00
DFT spectral test               3599,00      (p = 0,00)
D=5,79
Universal test                   -1,00      (p = -1,00)
Linear complexity processor - 1000 3,86      random (p = 0,70)
Serial processor (8)            2361,05    (p = 0,00)
Del2=1127,33    psim1=2593,19    psim2=1359,47    p_value1=0,00
p_value2=0,00
Approximate entropy test, 8b     3589,91    (p = 0,00)
apen=0,45
Cumulative sums test - forward   587,00      (p = 0,00)
sum2=0,00

```



|                                                                                    |         |                   |
|------------------------------------------------------------------------------------|---------|-------------------|
| Cumulative sums test - backward<br>sum2=0,00                                       | 591,00  | (p = 0,00)        |
| Random excursions test                                                             | 3,06    | random (p = 0,69) |
| Random excursions variant test (0)                                                 | 11,00   | random (p = 0,61) |
| File 13: C:\java\diplomski\ZIP Java HW06.zip 84 kB                                 |         |                   |
| Testing from byte 43284, block is 7462                                             |         |                   |
| Frequency test<br>Ones=3722,00      Frequency=-18,00                               | 0,21    | random (p = 0,83) |
| Block frequency test 128b<br>Sum=0,16                                              | 83,72   | random (p = 0,02) |
| Block frequency test 256b<br>Sum=0,05                                              | 49,05   | random (p = 0,01) |
| RLE test<br>FlipOnes=1885,00      FlipZeroes=1886,00                               | 3771,00 | random (p = 0,35) |
| Binary matrix rank test<br>F_30=1,00                                               | 0,75    | random (p = 0,69) |
| Longest run of ones test<br>v_n_obs=7,00                                           | 6,54    | random (p = 0,26) |
| DFT spectral test<br>D=0,38                                                        | 3548,00 | random (p = 0,71) |
| Universal test                                                                     | -1,00   | (p = -1,00)       |
| Linear complexity processor - 1000                                                 | 1,29    | random (p = 0,97) |
| Serial processor (8)                                                               | 224,99  | (p = 0,00)        |
| Del2=111,65      psim1=211,48      psim2=98,15      p_value1=0,00<br>p_value2=0,00 |         |                   |
| Approximate entropy test, 8b<br>apen=0,67                                          | 396,81  | (p = 0,00)        |
| Cumulative sums test - forward<br>sum2=0,04                                        | 175,00  | random (p = 0,09) |
| Cumulative sums test - backward<br>sum2=0,03                                       | 193,00  | random (p = 0,05) |
| Random excursions test                                                             | 7,47    | random (p = 0,19) |
| Random excursions variant test (0)                                                 | 35,00   | random (p = 0,93) |
| File 14: C:\java\diplomski\ZIP Apache-maven-3.3.1-bin.zip 7985 kB                  |         |                   |
| Testing from byte 4088722, block is 7462                                           |         |                   |
| Frequency test<br>Ones=3629,00      Frequency=-204,00                              | 2,36    | random (p = 0,02) |
| Block frequency test 128b<br>Sum=0,13                                              | 64,59   | random (p = 0,26) |
| Block frequency test 256b<br>Sum=0,03                                              | 27,14   | random (p = 0,56) |
| RLE test<br>FlipOnes=1857,00      FlipZeroes=1856,00                               | 3713,00 | random (p = 0,72) |
| Binary matrix rank test<br>F_30=1,00                                               | 0,75    | random (p = 0,69) |
| Longest run of ones test<br>v_n_obs=5,00                                           | 14,82   | random (p = 0,01) |
| DFT spectral test<br>D=1,97                                                        | 3563,00 | random (p = 0,05) |

|                                              |              |                   |
|----------------------------------------------|--------------|-------------------|
| Universal test                               | -1,00        | (p = -1,00)       |
| Linear complexity processor - 1000           | 1,86         | random (p = 0,93) |
| Serial processor (8)                         | 164,98       | random (p = 0,02) |
| Del2=74,10                      psim1=207,95 | psim2=117,07 | p_value1=0,02     |
| p_value2=0,18                                |              |                   |
| Approximate entropy test, 8b                 | 324,64       | (p = 0,00)        |
| apen=0,67                                    |              |                   |
| Cumulative sums test - forward               | 212,00       | random (p = 0,03) |
| sum2=0,01                                    |              |                   |
| Cumulative sums test - backward              | 206,00       | random (p = 0,03) |
| sum2=0,02                                    |              |                   |
| Random excursions test                       | 53,61        | (p = 0,00)        |
| Random excursions variant test (0)           | 9,00         | random (p = 0,55) |

File 15: C:\java\diplomski\RAR S.A.R.S. - Perspektiva.rar 43470 kB

Testing from byte 22257067, block is 7462

|                                                          |              |                   |
|----------------------------------------------------------|--------------|-------------------|
| Frequency test                                           | 3,01         | (p = 0,00)        |
| Ones=3601,00                      Frequency=-260,00      |              |                   |
| Block frequency test 128b                                | 91,38        | (p = 0,00)        |
| Sum=0,18                                                 |              |                   |
| Block frequency test 256b                                | 57,53        | (p = 0,00)        |
| Sum=0,06                                                 |              |                   |
| RLE test                                                 | 3627,00      | random (p = 0,02) |
| FlipOnes=1814,00                      FlipZeroes=1813,00 |              |                   |
| Binary matrix rank test                                  | 0,75         | random (p = 0,69) |
| F_30=1,00                                                |              |                   |
| Longest run of ones test                                 | 1,60         | random (p = 0,90) |
| v_n_obs=6,00                                             |              |                   |
| DFT spectral test                                        | 3537,00      | random (p = 0,43) |
| D=-0,79                                                  |              |                   |
| Universal test                                           | -1,00        | (p = -1,00)       |
| Linear complexity processor - 1000                       | 6,43         | random (p = 0,38) |
| Serial processor (8)                                     | 153,15       | random (p = 0,06) |
| Del2=81,36                      psim1=209,56             | psim2=137,77 | p_value1=0,06     |
| p_value2=0,07                                            |              |                   |
| Approximate entropy test, 8b                             | 299,24       | random (p = 0,03) |
| apen=0,67                                                |              |                   |
| Cumulative sums test - forward                           | 277,00       | (p = 0,00)        |
| sum2=0,00                                                |              |                   |
| Cumulative sums test - backward                          | 286,00       | (p = 0,00)        |
| sum2=0,00                                                |              |                   |
| Random excursions test                                   | 5,21         | random (p = 0,39) |
| Random excursions variant test (0)                       | 4,00         | random (p = 0,72) |

File 16: C:\java\diplomski\SANITYCHECK randombits.rng 32 kB

Testing from byte 16384, block is 7462

|                                                    |       |                   |
|----------------------------------------------------|-------|-------------------|
| Frequency test                                     | 1,20  | random (p = 0,23) |
| Ones=3783,00                      Frequency=104,00 |       |                   |
| Block frequency test 128b                          | 68,16 | random (p = 0,17) |
| Sum=0,13                                           |       |                   |

|                                          |             |                   |
|------------------------------------------|-------------|-------------------|
| Block frequency test 256b                | 40,83       | random (p = 0,07) |
| Sum=0,04                                 |             |                   |
| RLE test                                 | 3746,00     | random (p = 0,72) |
| Flip0nes=1873,00      FlipZeroes=1873,00 |             |                   |
| Binary matrix rank test                  | 1,41        | random (p = 0,49) |
| F_30=0,00                                |             |                   |
| Longest run of ones test                 | 5,63        | random (p = 0,34) |
| v_n_obs=5,00                             |             |                   |
| DFT spectral test                        | 3560,00     | random (p = 0,10) |
| D=1,65                                   |             |                   |
| Universal test                           | -1,00       | (p = -1,00)       |
| Linear complexity processor - 1000       | 3,86        | random (p = 0,70) |
| Serial processor (8)                     | 107,52      | random (p = 0,79) |
| Del2=54,77      psim1=103,48             | psim2=50,74 | p_value1=0,91     |
| p_value2=0,79                            |             |                   |
| Approximate entropy test, 8b             | 267,72      | random (p = 0,29) |
| apen=0,68                                |             |                   |
| Cumulative sums test - forward           | 120,00      | random (p = 0,33) |
| sum2=0,16                                |             |                   |
| Cumulative sums test - backward          | 147,00      | random (p = 0,18) |
| sum2=0,09                                |             |                   |
| Random excursions test                   | 12,92       | random (p = 0,02) |
| Random excursions variant test (0)       | 37,00       | random (p = 0,33) |

File 17: C:\java\diplomski\SANITYCHECK block0.rng 10240 kB

Testing from byte 5242880, block is 7462

|                                          |             |                   |
|------------------------------------------|-------------|-------------------|
| Frequency test                           | 2,13        | random (p = 0,03) |
| Ones=3823,00      Frequency=184,00       |             |                   |
| Block frequency test 128b                | 68,91       | random (p = 0,15) |
| Sum=0,13                                 |             |                   |
| Block frequency test 256b                | 36,89       | random (p = 0,15) |
| Sum=0,04                                 |             |                   |
| RLE test                                 | 3771,00     | random (p = 0,33) |
| Flip0nes=1885,00      FlipZeroes=1886,00 |             |                   |
| Binary matrix rank test                  | 1,48        | random (p = 0,48) |
| F_30=2,00                                |             |                   |
| Longest run of ones test                 | 7,08        | random (p = 0,22) |
| v_n_obs=6,00                             |             |                   |
| DFT spectral test                        | 3532,00     | random (p = 0,19) |
| D=-1,32                                  |             |                   |
| Universal test                           | -1,00       | (p = -1,00)       |
| Linear complexity processor - 1000       | 1,57        | random (p = 0,95) |
| Serial processor (8)                     | 134,55      | random (p = 0,33) |
| Del2=62,46      psim1=154,53             | psim2=82,44 | p_value1=0,33     |
| p_value2=0,53                            |             |                   |
| Approximate entropy test, 8b             | 240,81      | random (p = 0,74) |
| apen=0,68                                |             |                   |
| Cumulative sums test - forward           | 204,00      | random (p = 0,04) |
| sum2=0,02                                |             |                   |
| Cumulative sums test - backward          | 214,00      | random (p = 0,03) |
| sum2=0,01                                |             |                   |

|                                                             |             |                   |
|-------------------------------------------------------------|-------------|-------------------|
| Random excursions test                                      | 3,75        | random (p = 0,59) |
| Random excursions variant test (0)                          | 50,00       | random (p = 0,14) |
| File 18: C:\java\diplomski\TC truecrypt volume.tc 102400 kB |             |                   |
| Testing from byte 52428800, block is 7462                   |             |                   |
| Frequency test                                              | 0,37        | random (p = 0,71) |
| Ones=3715,00      Frequency=-32,00                          |             |                   |
| Block frequency test 128b                                   | 75,94       | random (p = 0,06) |
| Sum=0,15                                                    |             |                   |
| Block frequency test 256b                                   | 28,72       | random (p = 0,48) |
| Sum=0,03                                                    |             |                   |
| RLE test                                                    | 3734,00     | random (p = 0,94) |
| FlipOnes=1867,00      FlipZeroes=1867,00                    |             |                   |
| Binary matrix rank test                                     | 0,75        | random (p = 0,69) |
| F_30=1,00                                                   |             |                   |
| Longest run of ones test                                    | 3,02        | random (p = 0,70) |
| v_n_obs=6,00                                                |             |                   |
| DFT spectral test                                           | 3540,00     | random (p = 0,64) |
| D=-0,47                                                     |             |                   |
| Universal test                                              | -1,00       | (p = -1,00)       |
| Linear complexity processor - 1000                          | 4,43        | random (p = 0,62) |
| Serial processor (8)                                        | 137,85      | (p = 0,01)        |
| Del2=95,60      psim1=70,48                                 | psim2=28,23 | p_value1=0,26     |
| p_value2=0,01                                               |             |                   |
| Approximate entropy test, 8b                                | 297,67      | random (p = 0,04) |
| apen=0,67                                                   |             |                   |
| Cumulative sums test - forward                              | 71,00       | random (p = 0,79) |
| sum2=0,40                                                   |             |                   |
| Cumulative sums test - backward                             | 76,00       | random (p = 0,74) |
| sum2=0,37                                                   |             |                   |
| Random excursions test                                      | 5,11        | random (p = 0,40) |
| Random excursions variant test (0)                          | 85,00       | random (p = 0,57) |

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