Kratak opis formata izvješća

Ulaz u program je niz imena datoteka. Te datoteke su koliko-toliko grupirane po svojim ekstenzijama.

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

Komentar na izvješće

- Na prvi pogled se jasno uočava razlika između tekstualnih i binarnih datoteka (najbolje se vidi gledajući *random* stupac)
- Dobra vijest je da ZIP i RAR datoteke pokazuju razlike od slučajnih brojeva.
- Vidi se i razlika između pojedinih podtipova datoteka, što će se vjerojatno iskristalizirati nakon što se provede strojno učenje.

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)
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)

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)
FlipOnes=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)
FlipOnes=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         591,00       (p = 0,00)
sum2=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                          0,21         random (p = 0,83)
Ones=3722,00        Frequency=-18,00
Block frequency test 128b               83,72        random (p = 0,02)
Sum=0,16
Block frequency test 256b               49,05        random (p = 0,01)
Sum=0,05
RLE test                                3771,00      random (p = 0,35)
FlipOnes=1885,00    FlipZeroes=1886,00
Binary matrix rank test                 0,75         random (p = 0,69)
F_30=1,00
Longest run of ones test                6,54         random (p = 0,26)
v_n_obs=7,00
DFT spectral test                       3548,00      random (p = 0,71)
D=0,38
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
p_value2=0,00
Approximate entropy test, 8b            396,81       (p = 0,00)
apen=0,67
Cumulative sums test - forward          175,00       random (p = 0,09)
sum2=0,04
Cumulative sums test - backward         193,00       random (p = 0,05)
sum2=0,03
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                          2,36         random (p = 0,02)
Ones=3629,00        Frequency=-204,00
Block frequency test 128b               64,59        random (p = 0,26)
Sum=0,13
Block frequency test 256b               27,14        random (p = 0,56)
Sum=0,03
RLE test                                3713,00      random (p = 0,72)
FlipOnes=1857,00    FlipZeroes=1856,00
Binary matrix rank test                 0,75         random (p = 0,69)
F_30=1,00
Longest run of ones test                14,82        random (p = 0,01)
v_n_obs=5,00
DFT spectral test                       3563,00      random (p = 0,05)
D=1,97
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)
FlipOnes=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)
FlipOnes=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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