

Analyse Rohdaten PRG610

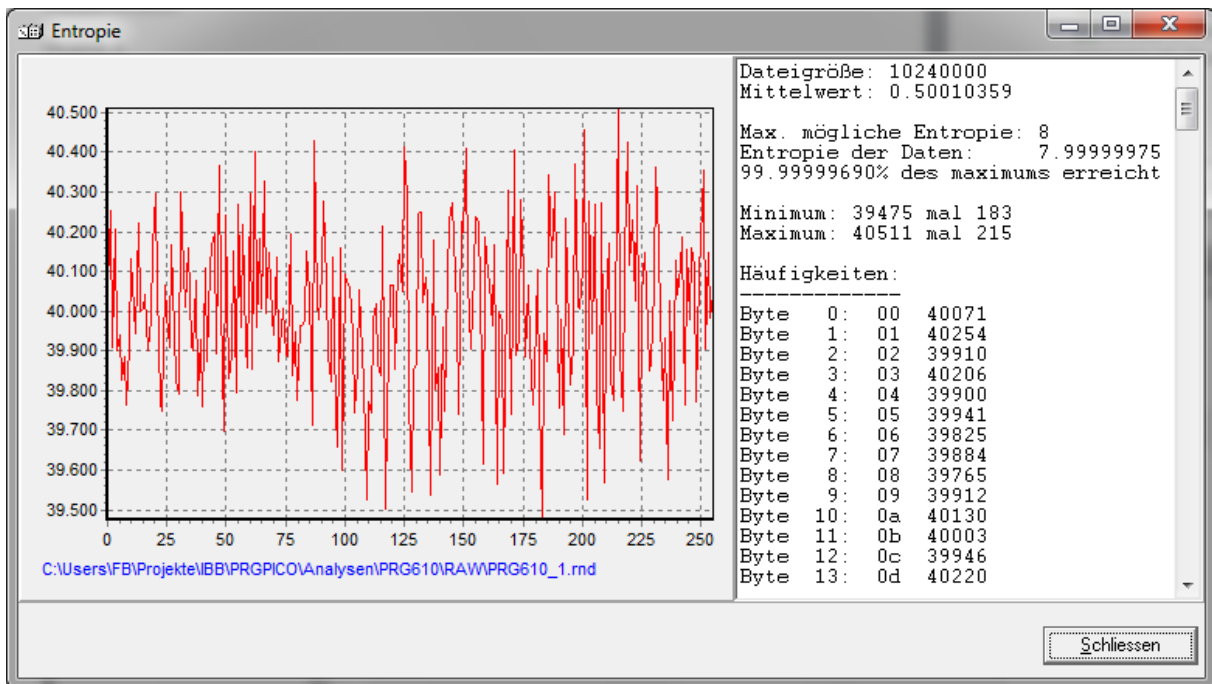
(22.01.2015)

Umgebungstemperatur 22°C

PRG610_1

Mittelwert: 0.50010359

Entropie der Daten: 7.99999975



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*****  
*                                     *  
*           AIS31 evaluation tests           *  
*                                     *  
*****
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date, time: 01/22/2015, 12:21:16
tested file: prg610_1.rnd
size of file: 10240000 bytes

Results of test 1 (test (P2.i)(vii.a) of AIS 31, cf. [3] and [4])

test scope: first 100000 bits
number of ones: 50168
relative frequency: 0.501680
test value: 0.00168000 < 0.025

sequence passes test 1

Results of test 2 (test (P2.i)(vii.b) of AIS 31, cf. [3] and [4])

number of 2-bit words looked up: 200277
relative frequency $v(0,1)$: 0.498610
relative frequency $v(1,0)$: 0.497830
test value: 0.00356000 < 0.02

sequence passes test 2

Results of test 3 (test (P2.i)(vii.c) of AIS 31, cf. [3] and [4])

number of 3-bit words looked up: 403533
test value t_1 : 2.191222 \leq 15.13
test value t_2 : 0.633680 \leq 15.13

sequence passes test 3

Results of test 4 (test (P2.i)(vii.d) of AIS 31, cf. [3] and [4])

number of 4-bit words looked up: 801736
test value t_{00} : 0.397620 \leq 15.13
test value t_{01} : 2.767690 \leq 15.13
test value t_{10} : 1.501520 \leq 15.13
test value t_{11} : 0.141120 \leq 15.13

sequence passes test 4

Results of test 5 (test (P2.i)(vii.e) of AIS 31, cf. [3] and [4])

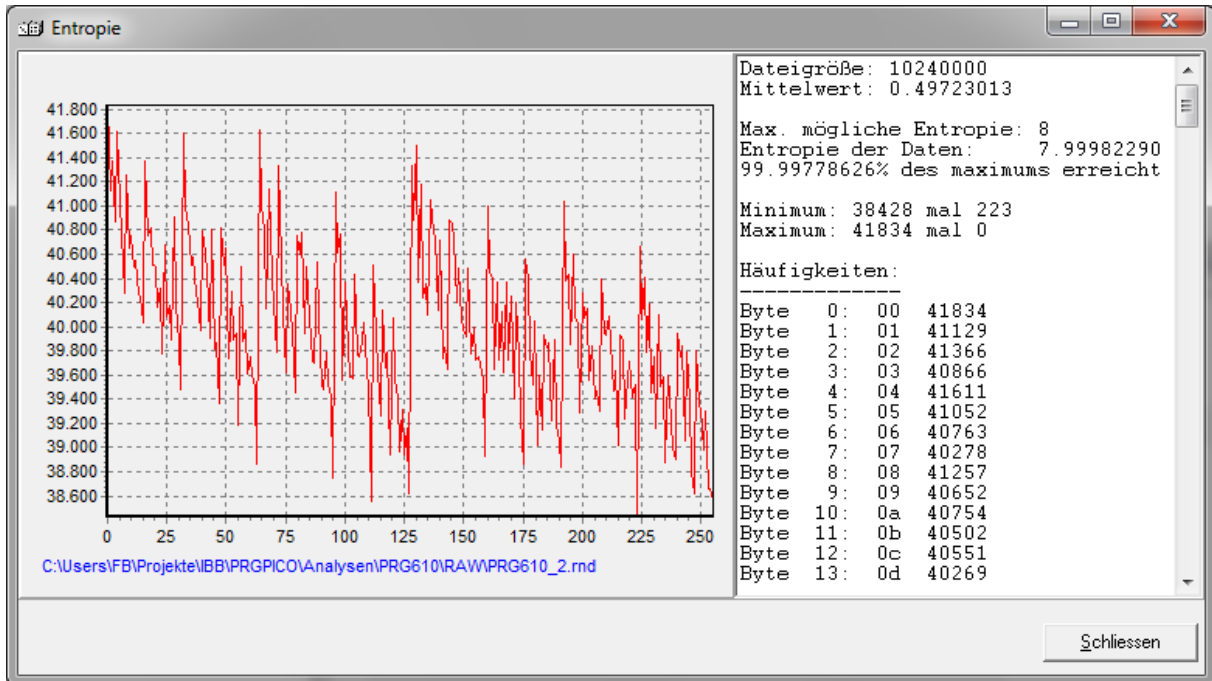
8-bit words looked up: 2560 + 256000 bytes
f-value: 8.00109772
8.00109772 > 7.976

sequence passes test 5

PRG610_2

Mittelwert: 0.49723013

Entropie der Daten: 7.99982290



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*                                     *  
*           AIS31 evaluation tests           *  
*                                     *  
*****
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date, time: 01/22/2015, 11:56:38

tested file: prg610_2.rnd

size of file: 10240000 bytes

Results of test 1 (test (P2.i)(vii.a) of AIS 31, cf. [3] and [4])

test scope: first 100000 bits

number of ones: 50053

relative frequency: 0.500530

test value: 0.00053000 < 0.025

Results of test 2 (test (P2.i)(vii.b) of AIS 31, cf. [3] and [4])

number of 2-bit words looked up: 200087
relative frequency $v(0,1)$: 0.498800
relative frequency $v(1,0)$: 0.501640
test value: 0.00044000 < 0.02

sequence passes test 2

Results of test 3 (test (P2.i)(vii.c) of AIS 31, cf. [3] and [4])

number of 3-bit words looked up: 404197
test value t_1 : 0.038721 \leq 15.13
test value t_2 : 1.260057 \leq 15.13

sequence passes test 3

Results of test 4 (test (P2.i)(vii.d) of AIS 31, cf. [3] and [4])

number of 4-bit words looked up: 810134
test value t_{00} : 6.821304 \leq 15.13
test value t_{01} : 0.092483 \leq 15.13
test value t_{10} : 0.699383 \leq 15.13
test value t_{11} : 0.032000 \leq 15.13

sequence passes test 4

Results of test 5 (test (P2.i)(vii.e) of AIS 31, cf. [3] and [4])

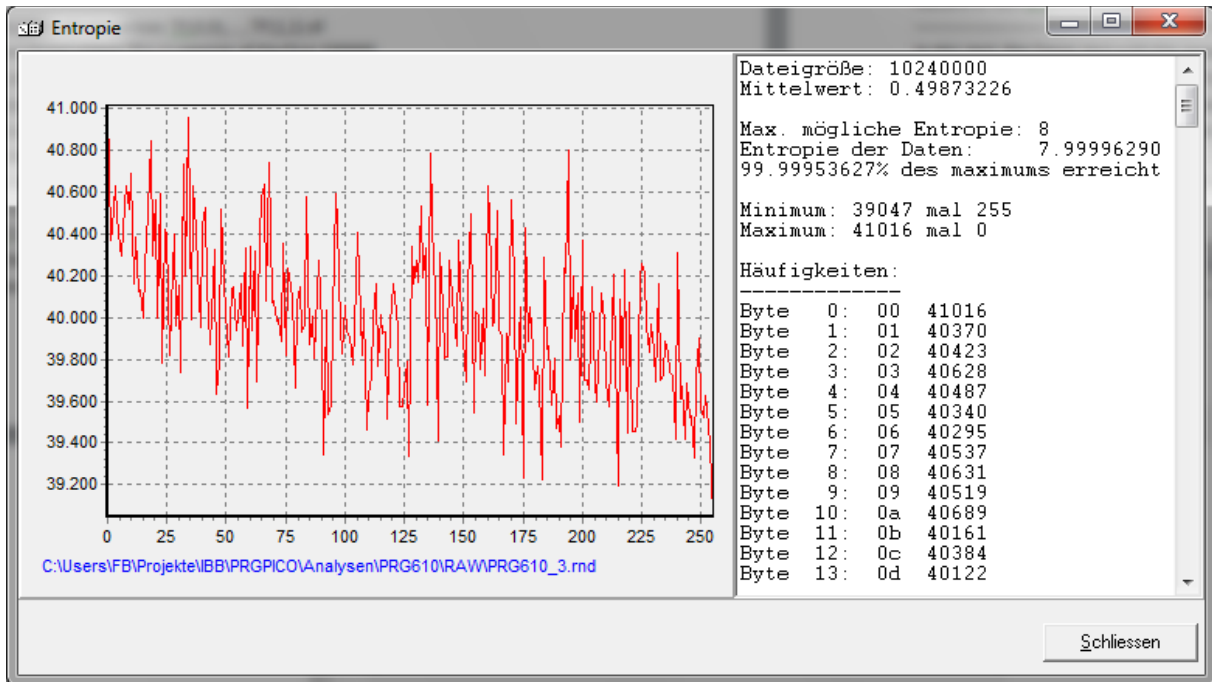
8-bit words looked up: 2560 + 256000 bytes
f-value: 7.99794386
7.99794386 > 7.976

sequence passes test 5

PRG610_3

Mittelwert: 0.49873226

Entropie der Daten: 7.99996290



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*****
*
*           AIS31 evaluation tests           *
*
*****
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date, time: 01/22/2015, 13:02:35
tested file: prg610_3.rnd
size of file: 10240000 bytes

Results of test 1 (test (P2.i)(vii.a) of AIS 31, cf. [3] and [4])

test scope: first 100000 bits
number of ones: 50109
relative frequency: 0.501090
test value: 0.00109000 < 0.025

sequence passes test 1

Results of test 2 (test (P2.i)(vii.b) of AIS 31, cf. [3] and [4])

number of 2-bit words looked up: 200163
relative frequency $v(0,1)$: 0.499780
relative frequency $v(1,0)$: 0.503650
test value: 0.00343000 < 0.02

sequence passes test 2

Results of test 3 (test (P2.i)(vii.c) of AIS 31, cf. [3] and [4])

number of 3-bit words looked up: 401600
test value t_{1} : 2.138635 \leq 15.13
test value t_{2} : 0.001280 \leq 15.13

sequence passes test 3

Results of test 4 (test (P2.i)(vii.d) of AIS 31, cf. [3] and [4])

number of 4-bit words looked up: 803859
test value t_{00} : 0.480513 \leq 15.13
test value t_{01} : 1.320980 \leq 15.13
test value t_{10} : 1.321009 \leq 15.13
test value t_{11} : 0.840502 \leq 15.13

sequence passes test 4

Results of test 5 (test (P2.i)(vii.e) of AIS 31, cf. [3] and [4])

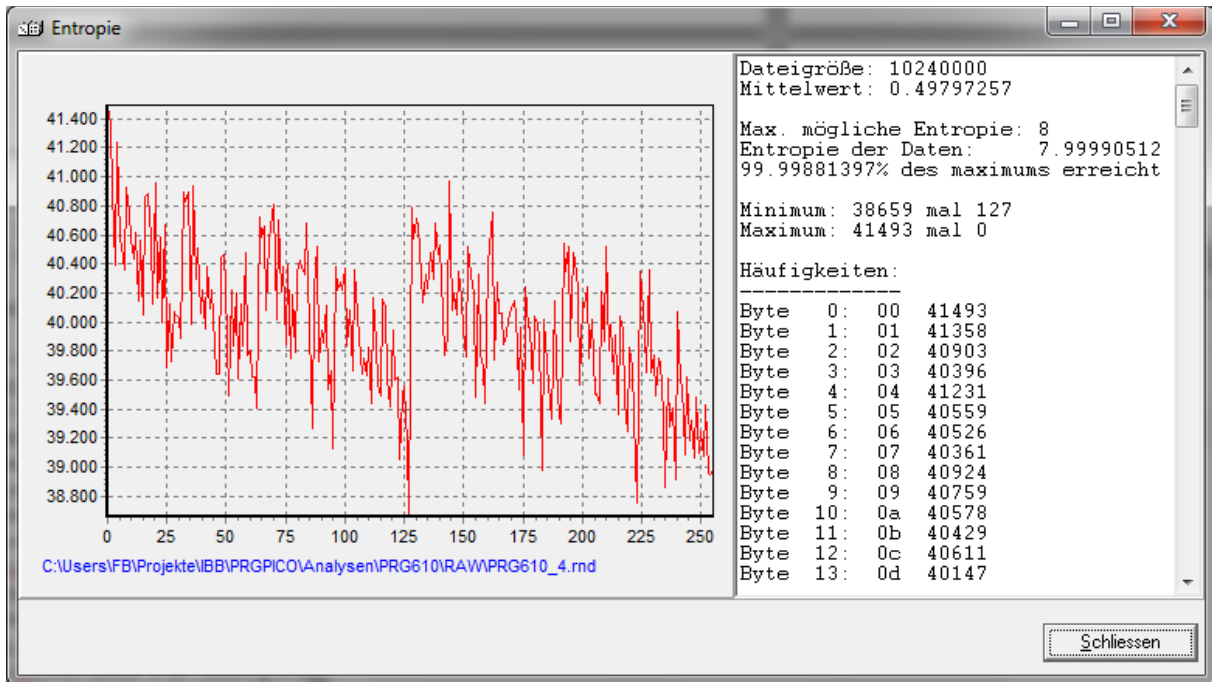
8-bit words looked up: 2560 + 256000 bytes
f-value: 8.00303162
8.00303162 > 7.976

sequence passes test 5

PRG610_4

Mittelwert: 0.49797257

Entropie der Daten: 7.99990512



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*****
*
*           AIS31 evaluation tests           *
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*****
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date, time: 01/22/2015, 13:37:43

tested file: prg610_4.rnd

size of file: 10240000 bytes

Results of test 1 (test (P2.i)(vii.a) of AIS 31, cf. [3] and [4])

test scope: first 100000 bits

number of ones: 49699

relative frequency: 0.496990

test value: 0.00301000 < 0.025

sequence passes test 1

Results of test 2 (test (P2.i)(vii.b) of AIS 31, cf. [3] and [4])

number of 2-bit words looked up: 200099
relative frequency $v(0,1)$: 0.498210
relative frequency $v(1,0)$: 0.501100
test value: 0.00069000 < 0.02

sequence passes test 2

Results of test 3 (test (P2.i)(vii.c) of AIS 31, cf. [3] and [4])

number of 3-bit words looked up: 402526
test value t_{1} : 0.824180 <= 15.13
test value t_{2} : 0.420503 <= 15.13

sequence passes test 3

Results of test 4 (test (P2.i)(vii.d) of AIS 31, cf. [3] and [4])

number of 4-bit words looked up: 802546
test value t_{00} : 0.808021 <= 15.13
test value t_{01} : 3.152181 <= 15.13
test value t_{10} : 1.021529 <= 15.13
test value t_{11} : 0.216326 <= 15.13

sequence passes test 4

Results of test 5 (test (P2.i)(vii.e) of AIS 31, cf. [3] and [4])

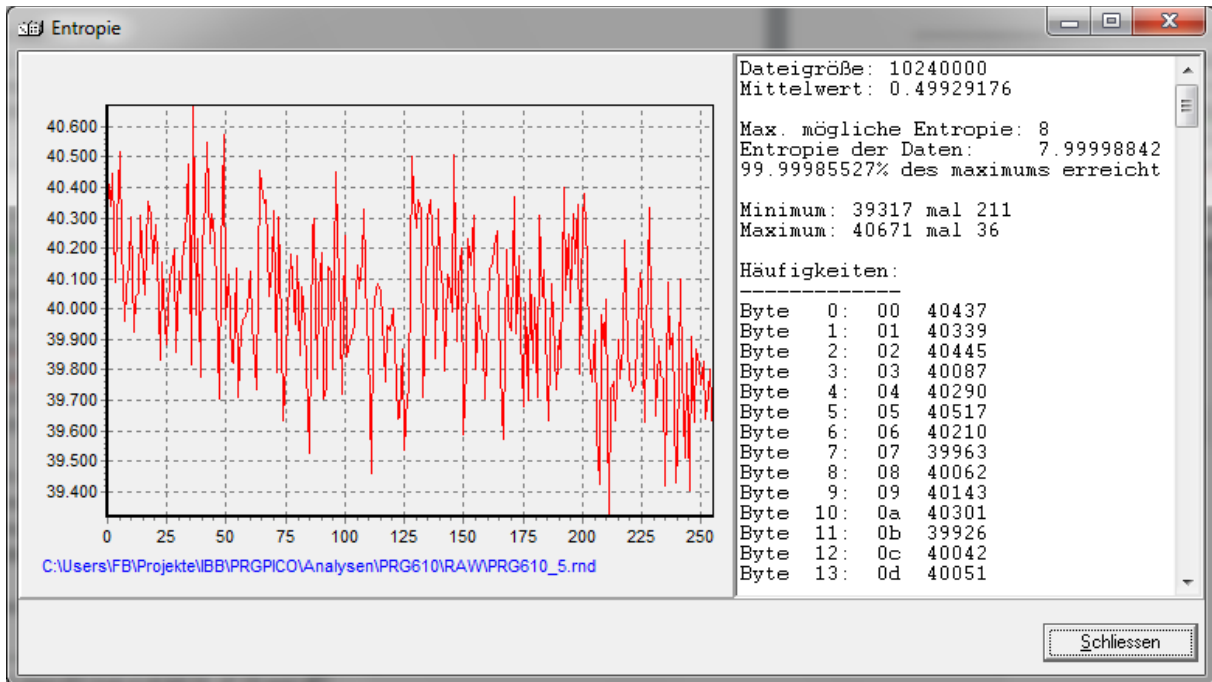
8-bit words looked up: 2560 + 256000 bytes
f-value: 8.00013422
8.00013422 > 7.976

sequence passes test 5

PRG610_5

Mittelwert: 0.49929176

Entropie der Daten: 7.99998842



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*****  
*                                     *  
*           AIS31 evaluation tests     *  
*                                     *  
*****
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date, time: 01/22/2015, 14:25:35
tested file: prg610_5.rnd
size of file: 10240000 bytes

Results of test 1 (test (P2.i)(vii.a) of AIS 31, cf. [3] and [4])

test scope: first 100000 bits
number of ones: 50252
relative frequency: 0.502520
test value: 0.00252000 < 0.025

sequence passes test 1

Results of test 2 (test (P2.i)(vii.b) of AIS 31, cf. [3] and [4])

number of 2-bit words looked up: 200099
relative frequency $v(0,1)$: 0.500170
relative frequency $v(1,0)$: 0.501590
test value: 0.00176000 < 0.02

sequence passes test 2

Results of test 3 (test (P2.i)(vii.c) of AIS 31, cf. [3] and [4])

number of 3-bit words looked up: 400687
test value t_{1} : 0.968048 \leq 15.13
test value t_{2} : 0.288001 \leq 15.13

sequence passes test 3

Results of test 4 (test (P2.i)(vii.d) of AIS 31, cf. [3] and [4])

number of 4-bit words looked up: 801604
test value t_{00} : 0.131220 \leq 15.13
test value t_{01} : 0.950486 \leq 15.13
test value t_{10} : 3.329298 \leq 15.13
test value t_{11} : 1.310725 \leq 15.13

sequence passes test 4

Results of test 5 (test (P2.i)(vii.e) of AIS 31, cf. [3] and [4])

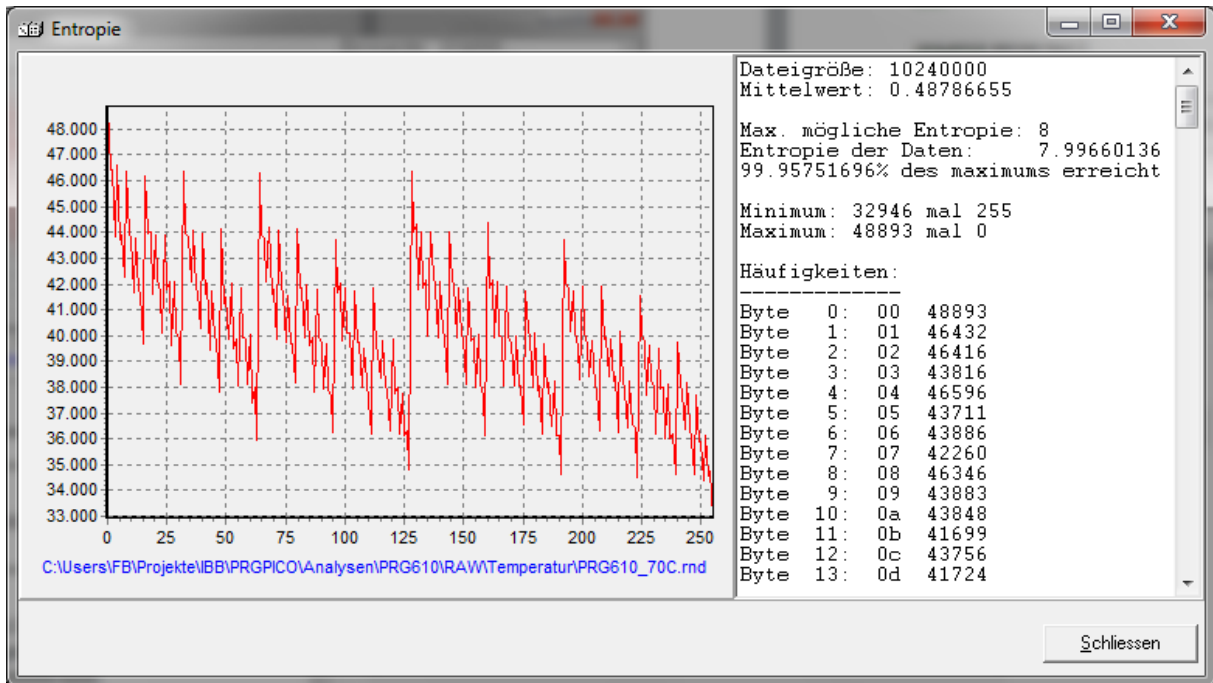
8-bit words looked up: 2560 + 256000 bytes
f-value: 8.00117140
8.00117140 > 7.976

sequence passes test 5

Temperaturtest Rohdaten

Umgebungstemperatur +70°C

Mittelwert: 0.48786655
 Entropie der Daten: 7.99660136



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*****
*
*           AIS31 evaluation tests           *
*
*****
  
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date, time: 01/23/2015, 15:09:32
 tested file: PRG610_70C.rnd
 size of file: 10240000 bytes

 Results of test 1 (test (P2.i)(vii.a) of AIS 31, cf. [3] and [4])

test scope: first 100000 bits
 number of ones: 50043
 relative frequency: 0.500430
 test value: 0.00043000 < 0.025

sequence passes test 1

Results of test 2 (test (P2.i)(vii.b) of AIS 31, cf. [3] and [4])

number of 2-bit words looked up: 200426
relative frequency $v(0,1)$: 0.497250
relative frequency $v(1,0)$: 0.500860
test value: 0.00189000 < 0.02

sequence passes test 2

Results of test 3 (test (P2.i)(vii.c) of AIS 31, cf. [3] and [4])

number of 3-bit words looked up: 401219
test value t_1 : 1.705308 <= 15.13
test value t_2 : 0.950491 <= 15.13

sequence passes test 3

Results of test 4 (test (P2.i)(vii.d) of AIS 31, cf. [3] and [4])

number of 4-bit words looked up: 816273
test value t_{00} : 0.426330 <= 15.13
test value t_{01} : 0.278483 <= 15.13
test value t_{10} : 0.288003 <= 15.13
test value t_{11} : 0.000320 <= 15.13

sequence passes test 4

Results of test 5 (test (P2.i)(vii.e) of AIS 31, cf. [3] and [4])

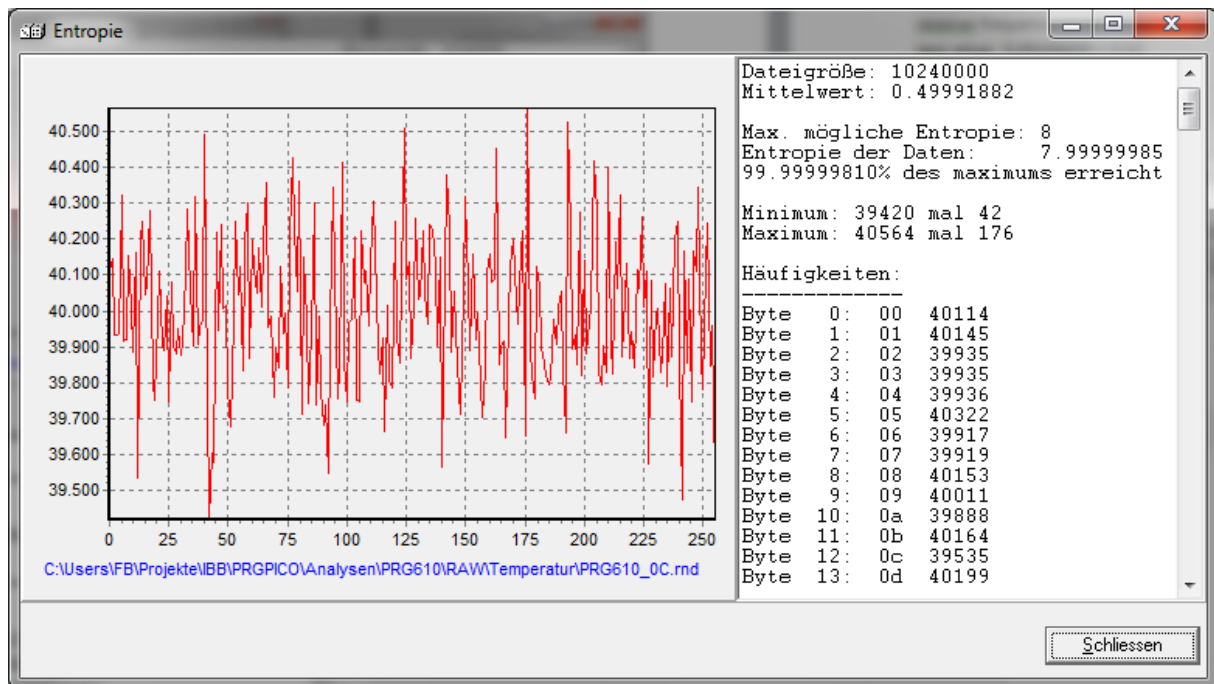
8-bit words looked up: 2560 + 256000 bytes
f-value: 8.00060091
8.00060091 > 7.976

sequence passes test 5

Umgebungstemperatur 0°C

Mittelwert: 0.49991882

Entropie der Daten: 7.99999985



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*
*           AIS31 evaluation tests           *
*
*                                           *
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date, time: 01/23/2015, 15:39:17

tested file: prg610_0c.rnd

size of file: 10240000 bytes

Results of test 1 (test (P2.i)(vii.a) of AIS 31, cf. [3] and [4])

test scope: first 100000 bits

number of ones: 50009

relative frequency: 0.500090

test value: 0.00009000 < 0.025

sequence passes test 1

Results of test 2 (test (P2.i)(vii.b) of AIS 31, cf. [3] and [4])

number of 2-bit words looked up: 200217
relative frequency $v(0,1)$: 0.500820
relative frequency $v(1,0)$: 0.500510
test value: 0.00133000 < 0.02

sequence passes test 2

Results of test 3 (test (P2.i)(vii.c) of AIS 31, cf. [3] and [4])

number of 3-bit words looked up: 401037
test value t_1 : 0.027380 <= 15.13
test value t_2 : 0.162000 <= 15.13

sequence passes test 3

Results of test 4 (test (P2.i)(vii.d) of AIS 31, cf. [3] and [4])

number of 4-bit words looked up: 802995
test value t_{00} : 0.343223 <= 15.13
test value t_{01} : 1.635924 <= 15.13
test value t_{10} : 2.217781 <= 15.13
test value t_{11} : 1.740506 <= 15.13

sequence passes test 4

Results of test 5 (test (P2.i)(vii.e) of AIS 31, cf. [3] and [4])

8-bit words looked up: 2560 + 256000 bytes
f-value: 8.00305043
8.00305043 > 7.976

sequence passes test 5