Wojciech Ładyga - zadanie 13

Język technologia: c++

Program wykorzystuje interpolacje Flotera i Hormanna to obliczeń z parametrem D = 3.
Algorytm w postaci barycentrycznej to:

$$r(x) \;=\; \frac{\displaystyle\sum_{k=0}^{n} \frac{w_k}{x-x_k} f_k}{\displaystyle\sum_{k=0}^{n} \frac{w_k}{x-x_k}}$$

$$w_k \;=\; \sum_{i \in J_k} (-1)^i \prod_{j=i, j \neq k}^{i+d} \frac{1}{x_k - x_j}$$

gdzie $J_k = \{i \in I : k - d \leqslant i \leqslant k\}$, $I = \{0, 1, \ldots, n-d\}$.

lecz wk można zastąpić

$$w_k = (-1)^{k-d} \sum_{i \in J_k} \binom{d}{k-i}.$$

na podstawie publikacji https://www.inf.usi.ch/faculty/hormann/papers/Floater.2007.BRI.pdf

Do wygenerowania wykresu skorzystałem z metody GNU plotutils:

```
./a.out > interp.dat
$ graph -T ps < interp.dat > interp.ps
```

Wyniki splajnu zapisałem do pliku i później wkleiłem do tego pdfa.

W tym zadaniu mamy do dyspozycji 65 węzłów gdyż zaczynając od -1 , -1+1/32 + ... , i przechodząc aż do 1 skaczemy o 1/32. Więc wyliczając mamy 65 mozliwych argumętów funkcji.
Przykład wyliczenia ilości węzłów stosując exela:

	A	B	C	D	E	F	G
1	-1		0		-0,03125		31
2	-0,96875		1		0		32
3	-0,9375		2		0,03125		33
4	-0,90625		3		0,0625		34
5	-0,875		4		0,09375		35
6	-0,84375		5		0,125		36
7	-0,8125		6		0,15625		37
8	-0,78125		7		0,1875		38
9	-0,75		8		0,21875		39
10	-0,71875		9		0,25		40
11	-0,6875		10		0,28125		41
12	-0,65625		11		0,3125		42
13	-0,625		12		0,34375		43
14	-0,59375		13		0,375		44
15	-0,5625		14		0,40625		45
16	-0,53125		15		0,4375		46
17	-0,5		16		0,46875		47
18	-0,46875		17		0,5		48
19	-0,4375		18		0,53125		49
20	-0,40625		19		0,5625		50
21	-0,375		20		0,59375		51
22	-0,34375		21		0,625		52
23	-0,3125		22		0,65625		53
24	-0,28125		23		0,6875		54
25	-0,25		24		0,71875		55
26	-0,21875		25		0,75		56
27	-0,1875		26		0,78125		57
28	-0,15625		27		0,8125		58
29	-0,125		28		0,84375		59
30	-0,09375		29		0,875		60
31	-0,0625		30		0,90625		61
32					0,9375		62
33					0,96875		63
34					1		64
35							

z formułą `=-1+(CX/32)` gdzie cx to numer komurek od 1-65

Kod programu:

```
/*
* @Author: Wojciech Ladyga
* @Date: 2018-12-27
* @Description: Zad 13
*/
#include <iostream>
#include <iomanip>
#include <math.h>
#include <fstream>
```

```cpp
#include <gsl/gsl_linalg.h>

using namespace std;
const int N = 65; //wezly
const int D = 3;  //parametr
double f(double x);
int dmumianNewtona(int n, int k);
double rx(gsl_vector *fk, gsl_vector *xk, double x);
double wk(int k);
void algFH(double xi[], double yi[]);

/*
    //przydatne linki
    -wykład
    -http://th-www.if.uj.edu.pl/zfs/gora/metnum12/wyklad07.pdf
    -https://www.inf.usi.ch/faculty/hormann/papers/Floater.2007.BRI.pdf
*/

//algorytm w postaci barycentrycznej
int main()
{
    double xi[N], yi[N];
    printf("#m=0,S=2\n");
    //wyliczenie y na podstawie funkcji
    for (int i = 0; i < N; i++)
    {
        xi[i] = -1.0 + (i / 32.0);
        yi[i] = f(xi[i]);
        printf("%g %g\n", xi[i], yi[i]);
    }
    printf("#m=1,S=0\n");
    algFH(xi, yi);

    return 0;
}

//nasza funkcja
double f(double x)
{
    return 1 / (1 + 5 * pow(x, 2));
}

void algFH(double xi[], double yi[])
{
    //zapisanie do odpowiednich wektorów
    gsl_vector *x = gsl_vector_alloc(N);
    gsl_vector *y = gsl_vector_alloc(N);
    gsl_vector_view tmp_x = gsl_vector_view_array(xi, N);
    gsl_vector_view tmp_y = gsl_vector_view_array(yi, N);
    gsl_vector_memcpy(x, &tmp_x.vector);
    gsl_vector_memcpy(y, &tmp_y.vector);
```

```cpp
    //wyliczamy i zapisujemy wyniki do pliku
    ofstream myfile;
    myfile.open("wynik.txt");
    for (double i = -2.0; i <= 2.0; i += 0.001)
    {
        printf("%g %g\n", i, rx(x, y, i));
        myfile << fixed << setprecision(5) << i << " " << rx(x, y, i) << endl;
    }
    myfile.close();

    gsl_vector_free(x);
    gsl_vector_free(y);
}


//wk jest miedzy k-d<=i<=k
//I = {0,1,2,...,n-d}

//wzór ze strony
//https://www.inf.usi.ch/faculty/hormann/papers/Floater.2007.BRI.pdf
double wk(int k)
{
    double wynik = 0.0;

    for (int i = 0; i < N - D; i++)
    {
        if ((k - D <= i) & (i <= k))
        {
            wynik += dmumianNewtona(D, k - i);
        }
    }

    return pow(-1, k - D) * wynik;
}

//funkcja jako gładka mieszanka wielomianów interpolacyjnych
double rx(gsl_vector *xk, gsl_vector *fk, double x)
{
    //liczymy licznik i mianownik
    double l = 0.0, m = 0.0;
    for (int i = 0; i < N; i++)
    {
        l += (wk(i) / (x - gsl_vector_get(xk, i))) * gsl_vector_get(fk, i);
        m += wk(i) / (x - gsl_vector_get(xk, i));
    }

    return l / m;
}

//dwumian newtona wykorzystywany w wk
int dmumianNewtona(int n, int k)
```
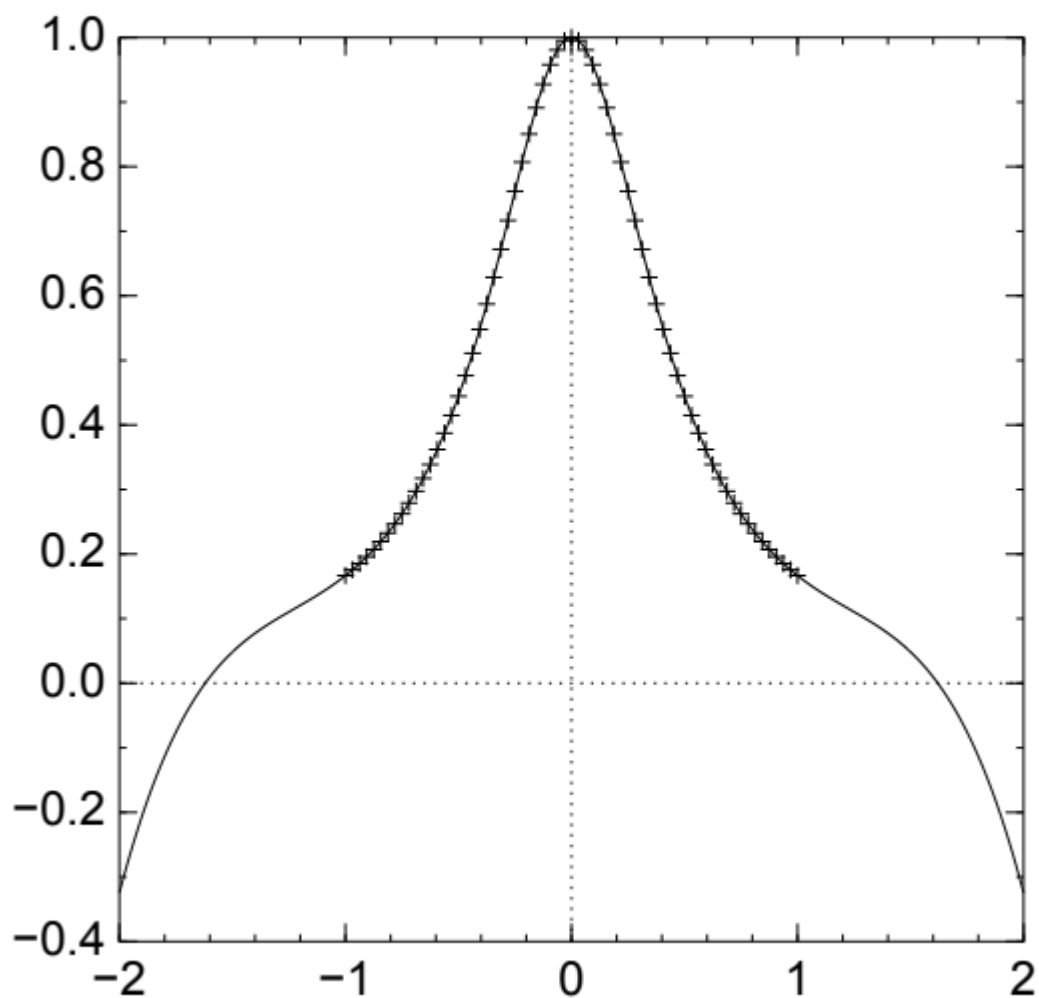
```
{
    if (k == 0 || k == n)
        return 1;

    return dmumianNewtona(n - 1, k - 1) + dmumianNewtona(n - 1, k);
}
```

Wyniki działania programu to:

Oraz wynik obliczen:

```
-2.00000 -0.32475
-1.99900 -0.32342
-1.99800 -0.32209
-1.99700 -0.32076
-1.99600 -0.31944
-1.99500 -0.31812
```

```
-1.99400  -0.31680
-1.99300  -0.31548
-1.99200  -0.31417
-1.99100  -0.31286
-1.99000  -0.31155
-1.98900  -0.31025
-1.98800  -0.30895
-1.98700  -0.30765
-1.98600  -0.30636
-1.98500  -0.30507
-1.98400  -0.30378
-1.98300  -0.30250
-1.98200  -0.30122
-1.98100  -0.29994
-1.98000  -0.29866
-1.97900  -0.29739
-1.97800  -0.29612
-1.97700  -0.29485
-1.97600  -0.29359
-1.97500  -0.29233
-1.97400  -0.29107
-1.97300  -0.28981
-1.97200  -0.28856
-1.97100  -0.28731
-1.97000  -0.28607
-1.96900  -0.28482
-1.96800  -0.28358
-1.96700  -0.28235
-1.96600  -0.28111
-1.96500  -0.27988
-1.96400  -0.27865
-1.96300  -0.27743
-1.96200  -0.27620
-1.96100  -0.27498
-1.96000  -0.27377
-1.95900  -0.27255
-1.95800  -0.27134
-1.95700  -0.27013
-1.95600  -0.26893
-1.95500  -0.26773
-1.95400  -0.26653
-1.95300  -0.26533
-1.95200  -0.26414
-1.95100  -0.26295
-1.95000  -0.26176
-1.94900  -0.26057
-1.94800  -0.25939
-1.94700  -0.25821
-1.94600  -0.25704
-1.94500  -0.25586
-1.94400  -0.25469
```

```
-1.94300  -0.25352
-1.94200  -0.25236
-1.94100  -0.25120
-1.94000  -0.25004
-1.93900  -0.24888
-1.93800  -0.24773
-1.93700  -0.24658
-1.93600  -0.24543
-1.93500  -0.24428
-1.93400  -0.24314
-1.93300  -0.24200
-1.93200  -0.24086
-1.93100  -0.23973
-1.93000  -0.23860
-1.92900  -0.23747
-1.92800  -0.23634
-1.92700  -0.23522
-1.92600  -0.23410
-1.92500  -0.23298
-1.92400  -0.23186
-1.92300  -0.23075
-1.92200  -0.22964
-1.92100  -0.22854
-1.92000  -0.22743
-1.91900  -0.22633
-1.91800  -0.22523
-1.91700  -0.22414
-1.91600  -0.22304
-1.91500  -0.22195
-1.91400  -0.22087
-1.91300  -0.21978
-1.91200  -0.21870
-1.91100  -0.21762
-1.91000  -0.21654
-1.90900  -0.21547
-1.90800  -0.21440
-1.90700  -0.21333
-1.90600  -0.21226
-1.90500  -0.21120
-1.90400  -0.21014
-1.90300  -0.20908
-1.90200  -0.20802
-1.90100  -0.20697
-1.90000  -0.20592
-1.89900  -0.20487
-1.89800  -0.20383
-1.89700  -0.20278
-1.89600  -0.20174
-1.89500  -0.20071
-1.89400  -0.19967
-1.89300  -0.19864
```

```
-1.89200 -0.19761
-1.89100 -0.19658
-1.89000 -0.19556
-1.88900 -0.19454
-1.88800 -0.19352
-1.88700 -0.19250
-1.88600 -0.19149
-1.88500 -0.19048
-1.88400 -0.18947
-1.88300 -0.18846
-1.88200 -0.18746
-1.88100 -0.18646
-1.88000 -0.18546
-1.87900 -0.18446
-1.87800 -0.18347
-1.87700 -0.18248
-1.87600 -0.18149
-1.87500 -0.18051
-1.87400 -0.17952
-1.87300 -0.17854
-1.87200 -0.17756
-1.87100 -0.17659
-1.87000 -0.17562
-1.86900 -0.17464
-1.86800 -0.17368
-1.86700 -0.17271
-1.86600 -0.17175
-1.86500 -0.17079
-1.86400 -0.16983
-1.86300 -0.16887
-1.86200 -0.16792
-1.86100 -0.16697
-1.86000 -0.16602
-1.85900 -0.16508
-1.85800 -0.16413
-1.85700 -0.16319
-1.85600 -0.16225
-1.85500 -0.16132
-1.85400 -0.16038
-1.85300 -0.15945
-1.85200 -0.15852
-1.85100 -0.15760
-1.85000 -0.15667
-1.84900 -0.15575
-1.84800 -0.15483
-1.84700 -0.15392
-1.84600 -0.15300
-1.84500 -0.15209
-1.84400 -0.15118
-1.84300 -0.15027
-1.84200 -0.14937
```

```
-1.84100 -0.14847
-1.84000 -0.14757
-1.83900 -0.14667
-1.83800 -0.14577
-1.83700 -0.14488
-1.83600 -0.14399
-1.83500 -0.14310
-1.83400 -0.14222
-1.83300 -0.14133
-1.83200 -0.14045
-1.83100 -0.13958
-1.83000 -0.13870
-1.82900 -0.13782
-1.82800 -0.13695
-1.82700 -0.13608
-1.82600 -0.13522
-1.82500 -0.13435
-1.82400 -0.13349
-1.82300 -0.13263
-1.82200 -0.13177
-1.82100 -0.13092
-1.82000 -0.13006
-1.81900 -0.12921
-1.81800 -0.12836
-1.81700 -0.12752
-1.81600 -0.12667
-1.81500 -0.12583
-1.81400 -0.12499
-1.81300 -0.12415
-1.81200 -0.12332
-1.81100 -0.12249
-1.81000 -0.12166
-1.80900 -0.12083
-1.80800 -0.12000
-1.80700 -0.11918
-1.80600 -0.11836
-1.80500 -0.11754
-1.80400 -0.11672
-1.80300 -0.11591
-1.80200 -0.11509
-1.80100 -0.11428
-1.80000 -0.11347
-1.79900 -0.11267
-1.79800 -0.11186
-1.79700 -0.11106
-1.79600 -0.11026
-1.79500 -0.10947
-1.79400 -0.10867
-1.79300 -0.10788
-1.79200 -0.10709
-1.79100 -0.10630
```

```
-1.79000 -0.10551
-1.78900 -0.10473
-1.78800 -0.10395
-1.78700 -0.10317
-1.78600 -0.10239
-1.78500 -0.10161
-1.78400 -0.10084
-1.78300 -0.10007
-1.78200 -0.09930
-1.78100 -0.09853
-1.78000 -0.09777
-1.77900 -0.09700
-1.77800 -0.09624
-1.77700 -0.09548
-1.77600 -0.09473
-1.77500 -0.09397
-1.77400 -0.09322
-1.77300 -0.09247
-1.77200 -0.09172
-1.77100 -0.09098
-1.77000 -0.09023
-1.76900 -0.08949
-1.76800 -0.08875
-1.76700 -0.08801
-1.76600 -0.08728
-1.76500 -0.08654
-1.76400 -0.08581
-1.76300 -0.08508
-1.76200 -0.08435
-1.76100 -0.08363
-1.76000 -0.08290
-1.75900 -0.08218
-1.75800 -0.08146
-1.75700 -0.08075
-1.75600 -0.08003
-1.75500 -0.07932
-1.75400 -0.07861
-1.75300 -0.07790
-1.75200 -0.07719
-1.75100 -0.07648
-1.75000 -0.07578
-1.74900 -0.07508
-1.74800 -0.07438
-1.74700 -0.07368
-1.74600 -0.07299
-1.74500 -0.07229
-1.74400 -0.07160
-1.74300 -0.07091
-1.74200 -0.07023
-1.74100 -0.06954
-1.74000 -0.06886
```

```
-1.73900 -0.06817
-1.73800 -0.06750
-1.73700 -0.06682
-1.73600 -0.06614
-1.73500 -0.06547
-1.73400 -0.06480
-1.73300 -0.06413
-1.73200 -0.06346
-1.73100 -0.06279
-1.73000 -0.06213
-1.72900 -0.06146
-1.72800 -0.06080
-1.72700 -0.06015
-1.72600 -0.05949
-1.72500 -0.05883
-1.72400 -0.05818
-1.72300 -0.05753
-1.72200 -0.05688
-1.72100 -0.05623
-1.72000 -0.05559
-1.71900 -0.05494
-1.71800 -0.05430
-1.71700 -0.05366
-1.71600 -0.05302
-1.71500 -0.05239
-1.71400 -0.05175
-1.71300 -0.05112
-1.71200 -0.05049
-1.71100 -0.04986
-1.71000 -0.04923
-1.70900 -0.04861
-1.70800 -0.04799
-1.70700 -0.04736
-1.70600 -0.04674
-1.70500 -0.04613
-1.70400 -0.04551
-1.70300 -0.04490
-1.70200 -0.04428
-1.70100 -0.04367
-1.70000 -0.04306
-1.69900 -0.04246
-1.69800 -0.04185
-1.69700 -0.04125
-1.69600 -0.04065
-1.69500 -0.04005
-1.69400 -0.03945
-1.69300 -0.03885
-1.69200 -0.03826
-1.69100 -0.03766
-1.69000 -0.03707
-1.68900 -0.03648
```

```
-1.68800 -0.03589
-1.68700 -0.03531
-1.68600 -0.03472
-1.68500 -0.03414
-1.68400 -0.03356
-1.68300 -0.03298
-1.68200 -0.03240
-1.68100 -0.03183
-1.68000 -0.03125
-1.67900 -0.03068
-1.67800 -0.03011
-1.67700 -0.02954
-1.67600 -0.02897
-1.67500 -0.02841
-1.67400 -0.02784
-1.67300 -0.02728
-1.67200 -0.02672
-1.67100 -0.02616
-1.67000 -0.02561
-1.66900 -0.02505
-1.66800 -0.02450
-1.66700 -0.02394
-1.66600 -0.02339
-1.66500 -0.02284
-1.66400 -0.02230
-1.66300 -0.02175
-1.66200 -0.02121
-1.66100 -0.02066
-1.66000 -0.02012
-1.65900 -0.01958
-1.65800 -0.01905
-1.65700 -0.01851
-1.65600 -0.01798
-1.65500 -0.01744
-1.65400 -0.01691
-1.65300 -0.01638
-1.65200 -0.01585
-1.65100 -0.01533
-1.65000 -0.01480
-1.64900 -0.01428
-1.64800 -0.01376
-1.64700 -0.01324
-1.64600 -0.01272
-1.64500 -0.01220
-1.64400 -0.01169
-1.64300 -0.01117
-1.64200 -0.01066
-1.64100 -0.01015
-1.64000 -0.00964
-1.63900 -0.00913
-1.63800 -0.00862
```

```
-1.63700 -0.00812
-1.63600 -0.00762
-1.63500 -0.00712
-1.63400 -0.00661
-1.63300 -0.00612
-1.63200 -0.00562
-1.63100 -0.00512
-1.63000 -0.00463
-1.62900 -0.00414
-1.62800 -0.00365
-1.62700 -0.00316
-1.62600 -0.00267
-1.62500 -0.00218
-1.62400 -0.00170
-1.62300 -0.00121
-1.62200 -0.00073
-1.62100 -0.00025
-1.62000 0.00023
-1.61900 0.00071
-1.61800 0.00119
-1.61700 0.00166
-1.61600 0.00213
-1.61500 0.00261
-1.61400 0.00308
-1.61300 0.00355
-1.61200 0.00401
-1.61100 0.00448
-1.61000 0.00495
-1.60900 0.00541
-1.60800 0.00587
-1.60700 0.00633
-1.60600 0.00679
-1.60500 0.00725
-1.60400 0.00771
-1.60300 0.00816
-1.60200 0.00861
-1.60100 0.00907
-1.60000 0.00952
-1.59900 0.00997
-1.59800 0.01042
-1.59700 0.01086
-1.59600 0.01131
-1.59500 0.01175
-1.59400 0.01220
-1.59300 0.01264
-1.59200 0.01308
-1.59100 0.01352
-1.59000 0.01395
-1.58900 0.01439
-1.58800 0.01482
-1.58700 0.01526
```

```
-1.58600 0.01569
-1.58500 0.01612
-1.58400 0.01655
-1.58300 0.01698
-1.58200 0.01741
-1.58100 0.01783
-1.58000 0.01826
-1.57900 0.01868
-1.57800 0.01910
-1.57700 0.01952
-1.57600 0.01994
-1.57500 0.02036
-1.57400 0.02077
-1.57300 0.02119
-1.57200 0.02160
-1.57100 0.02202
-1.57000 0.02243
-1.56900 0.02284
-1.56800 0.02325
-1.56700 0.02365
-1.56600 0.02406
-1.56500 0.02447
-1.56400 0.02487
-1.56300 0.02527
-1.56200 0.02567
-1.56100 0.02608
-1.56000 0.02647
-1.55900 0.02687
-1.55800 0.02727
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-1.55600 0.02806
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