

<i>observ</i>	<i>pořadí</i>	<i>realGDP</i>
1950Q1	1	1610.5
1950Q2	2	1658.8
1950Q3	3	1723
1950Q4	4	1753.9
1951Q1	5	1773.5
1951Q2	6	1803.7
1951Q3	7	1839.8
1951Q4	8	1843.3
1952Q1	9	1864.7
1952Q2	10	1866.2
1952Q3	11	1878
1952Q4	12	1940.2
1953Q1	13	1976
1953Q2	14	1992.2
1953Q3	15	1979.5
1953Q4	16	1947.8
1954Q1	17	1938.1
1954Q2	18	1941
1954Q3	19	1962
1954Q4	20	2000.9
1955Q1	21	2058.1
1955Q2	22	2091
1955Q3	23	2118.9
1955Q4	24	2130.1
1956Q1	25	2121
1956Q2	26	2137.7
1956Q3	27	2135.3
1956Q4	28	2170.4
1957Q1	29	2182.7
1957Q2	30	2177.7
1957Q3	31	2198.9
1957Q4	32	2176
1958Q1	33	2117.4
1958Q2	34	2129.7
1958Q3	35	2177.5
1958Q4	36	2226.5
1959Q1	37	2273
1959Q2	38	2332.4
1959Q3	39	2331.4
1959Q4	40	2339.1
1960Q1	41	2391
1960Q2	42	2379.2
1960Q3	43	2383.6
1960Q4	44	2352.9

1961Q1	45	2366.5
1961Q2	46	2410.8
1961Q3	47	2450.4
1961Q4	48	2500.4
1962Q1	49	2544
1962Q2	50	2571.5
1962Q3	51	2596.8
1962Q4	52	2603.3
1963Q1	53	2634.1
1963Q2	54	2668.4
1963Q3	55	2719.6
1963Q4	56	2739.4
1964Q1	57	2800.5
1964Q2	58	2833.8
1964Q3	59	2872
1964Q4	60	2879.5
1965Q1	61	2950.1
1965Q2	62	2989.9
1965Q3	63	3050.7
1965Q4	64	3123.6
1966Q1	65	3201.1
1966Q2	66	3213.2
1966Q3	67	3233.6
1966Q4	68	3261.8
1967Q1	69	3291.8
1967Q2	70	3289.7
1967Q3	71	3313.5
1967Q4	72	3338.3
1968Q1	73	3406.2
1968Q2	74	3464.8
1968Q3	75	3489.2
1968Q4	76	3504.1
1969Q1	77	3558.3
1969Q2	78	3567.6
1969Q3	79	3588.3
1969Q4	80	3571.4
1970Q1	81	3566.5
1970Q2	82	3573.9
1970Q3	83	3605.2
1970Q4	84	3566.5
1971Q1	85	3666.1
1971Q2	86	3686.2
1971Q3	87	3714.5
1971Q4	88	3723.8
1972Q1	89	3796.9

1972Q2	90	3883.8
1972Q3	91	3922.3
1972Q4	92	3990.5
1973Q1	93	4092.3
1973Q2	94	4133.3
1973Q3	95	4117
1973Q4	96	4151.1
1974Q1	97	4119.3
1974Q2	98	4130.4
1974Q3	99	4084.5
1974Q4	100	4062
1975Q1	101	4010
1975Q2	102	4045.2
1975Q3	103	4115.4
1975Q4	104	4167.2
1976Q1	105	4266.1
1976Q2	106	4301.5
1976Q3	107	4321.9
1976Q4	108	4357.4
1977Q1	109	4410.5
1977Q2	110	4489.8
1977Q3	111	4570.6
1977Q4	112	4576.1
1978Q1	113	4588.9
1978Q2	114	4765.7
1978Q3	115	4811.7
1978Q4	116	4876
1979Q1	117	4888.3
1979Q2	118	4891.4
1979Q3	119	4926.2
1979Q4	120	4942.6
1980Q1	121	4958.9
1980Q2	122	4857.8
1980Q3	123	4850.3
1980Q4	124	4936.6
1981Q1	125	5032.5
1981Q2	126	4997.3
1981Q3	127	5056.8
1981Q4	128	4997.1
1982Q1	129	4914.3
1982Q2	130	4935.5
1982Q3	131	4912.1
1982Q4	132	4915.6
1983Q1	133	4972.4
1983Q2	134	5089.8

1983Q3	135	5180.4
1983Q4	136	5286.8
1984Q1	137	5402.3
1984Q2	138	5493.8
1984Q3	139	5541.3
1984Q4	140	5583.1
1985Q1	141	5629.7
1985Q2	142	5673.8
1985Q3	143	5758.6
1985Q4	144	5806
1986Q1	145	5858.9
1986Q2	146	5883.3
1986Q3	147	5937.9
1986Q4	148	5969.5
1987Q1	149	6013.3
1987Q2	150	6077.2
1987Q3	151	6128.1
1987Q4	152	6234.4
1988Q1	153	6275.9
1988Q2	154	6349.8
1988Q3	155	6382.3
1988Q4	156	6465.2
1989Q1	157	6543.8
1989Q2	158	6579.4
1989Q3	159	6610.6
1989Q4	160	6633.5
1990Q1	161	6716.3
1990Q2	162	6731.7
1990Q3	163	6719.4
1990Q4	164	6664.2
1991Q1	165	6631.4
1991Q2	166	6668.5
1991Q3	167	6684.9
1991Q4	168	6720.9
1992Q1	169	6783.3
1992Q2	170	6846.8
1992Q3	171	6899.7
1992Q4	172	6990.6
1993Q1	173	6988.7
1993Q2	174	7031.2
1993Q3	175	7062
1993Q4	176	7168.7
1994Q1	177	7229.4
1994Q2	178	7330.2
1994Q3	179	7370.2

1994Q4	180	7461.1
1995Q1	181	7488.7
1995Q2	182	7503.3
1995Q3	183	7561.4
1995Q4	184	7621.9
1996Q1	185	7676.4
1996Q2	186	7802.9
1996Q3	187	7841.9
1996Q4	188	7931.3
1997Q1	189	8016.4
1997Q2	190	8131.9
1997Q3	191	8216.6
1997Q4	192	8272.9
1998Q1	193	8396.3
1998Q2	194	8442.9
1998Q3	195	8528.5
1998Q4	196	8667.9
1999Q1	197	8733.5
1999Q2	198	8771.2
1999Q3	199	8871.5
1999Q4	200	9049.9
2000Q1	201	9102.5
2000Q2	202	9229.4
2000Q3	203	9260.1
2000Q4	204	9303.9



čtvrtletí	pořadí	GDPUSA=y	t <sup>2</sup>	t*yt
1950Q1	1	1610.5	1	1610.5
1950Q2	2	1658.8	4	3317.6
1950Q3	3	1723	9	5169
1950Q4	4	1753.9	16	7015.6
1951Q1	5	1773.5	25	8867.5
1951Q2	6	1803.7	36	10822.2
1951Q3	7	1839.8	49	12878.6
1951Q4	8	1843.3	64	14746.4
1952Q1	9	1864.7	81	16782.3
1952Q2	10	1866.2	100	18662
1952Q3	11	1878	121	20658
1952Q4	12	1940.2	144	23282.4
1953Q1	13	1976	169	25688
1953Q2	14	1992.2	196	27890.8
1953Q3	15	1979.5	225	29692.5
1953Q4	16	1947.8	256	31164.8
1954Q1	17	1938.1	289	32947.7
1954Q2	18	1941	324	34938
1954Q3	19	1962	361	37278
1954Q4	20	2000.9	400	40018
1955Q1	21	2058.1	441	43220.1
1955Q2	22	2091	484	46002
1955Q3	23	2118.9	529	48734.7
1955Q4	24	2130.1	576	51122.4
1956Q1	25	2121	625	53025
1956Q2	26	2137.7	676	55580.2
1956Q3	27	2135.3	729	57653.1
1956Q4	28	2170.4	784	60771.2
1957Q1	29	2182.7	841	63298.3
1957Q2	30	2177.7	900	65331
1957Q3	31	2198.9	961	68165.9
1957Q4	32	2176	1024	69632
1958Q1	33	2117.4	1089	69874.2
1958Q2	34	2129.7	1156	72409.8
1958Q3	35	2177.5	1225	76212.5
1958Q4	36	2226.5	1296	80154
1959Q1	37	2273	1369	84101
1959Q2	38	2332.4	1444	88631.2
1959Q3	39	2331.4	1521	90924.6
1959Q4	40	2339.1	1600	93564
1960Q1	41	2391	1681	98031
1960Q2	42	2379.2	1764	99926.4
1960Q3	43	2383.6	1849	102494.8
1960Q4	44	2352.9	1936	103527.6

skutečnost	vyrovnání
1610.5	986.2
1658.8	1021.4
1723	1056.6
1753.9	1091.9
1773.5	1127.1
1803.7	1162.3
1839.8	1197.6
1843.3	1232.8
1864.7	1268.0
1866.2	1303.3
1878	1338.5
1940.2	1373.8
1976	1409.0
1992.2	1444.2
1979.5	1479.5
1947.8	1514.7
1938.1	1549.9
1941	1585.2
1962	1620.4
2000.9	1655.6
2058.1	1690.9
2091	1726.1
2118.9	1761.4
2130.1	1796.6
2121	1831.8
2137.7	1867.1
2135.3	1902.3
2170.4	1937.5
2182.7	1972.8
2177.7	2008.0
2198.9	2043.2
2176	2078.5
2117.4	2113.7
2129.7	2149.0
2177.5	2184.2
2226.5	2219.4
2273	2254.7
2332.4	2289.9
2331.4	2325.1
2339.1	2360.4
2391	2395.6
2379.2	2430.8
2383.6	2466.1
2352.9	2501.3

1961Q1	45	2366.5	2025	106492.5
1961Q2	46	2410.8	2116	110896.8
1961Q3	47	2450.4	2209	115168.8
1961Q4	48	2500.4	2304	120019.2
1962Q1	49	2544	2401	124656
1962Q2	50	2571.5	2500	128575
1962Q3	51	2596.8	2601	132436.8
1962Q4	52	2603.3	2704	135371.6
1963Q1	53	2634.1	2809	139607.3
1963Q2	54	2668.4	2916	144093.6
1963Q3	55	2719.6	3025	149578
1963Q4	56	2739.4	3136	153406.4
1964Q1	57	2800.5	3249	159628.5
1964Q2	58	2833.8	3364	164360.4
1964Q3	59	2872	3481	169448
1964Q4	60	2879.5	3600	172770
1965Q1	61	2950.1	3721	179956.1
1965Q2	62	2989.9	3844	185373.8
1965Q3	63	3050.7	3969	192194.1
1965Q4	64	3123.6	4096	199910.4
1966Q1	65	3201.1	4225	208071.5
1966Q2	66	3213.2	4356	212071.2
1966Q3	67	3233.6	4489	216651.2
1966Q4	68	3261.8	4624	221802.4
1967Q1	69	3291.8	4761	227134.2
1967Q2	70	3289.7	4900	230279
1967Q3	71	3313.5	5041	235258.5
1967Q4	72	3338.3	5184	240357.6
1968Q1	73	3406.2	5329	248652.6
1968Q2	74	3464.8	5476	256395.2
1968Q3	75	3489.2	5625	261690
1968Q4	76	3504.1	5776	266311.6
1969Q1	77	3558.3	5929	273989.1
1969Q2	78	3567.6	6084	278272.8
1969Q3	79	3588.3	6241	283475.7
1969Q4	80	3571.4	6400	285712
1970Q1	81	3566.5	6561	288886.5
1970Q2	82	3573.9	6724	293059.8
1970Q3	83	3605.2	6889	299231.6
1970Q4	84	3566.5	7056	299586
1971Q1	85	3666.1	7225	311618.5
1971Q2	86	3686.2	7396	317013.2
1971Q3	87	3714.5	7569	323161.5
1971Q4	88	3723.8	7744	327694.4
1972Q1	89	3796.9	7921	337924.1

2366.5	2536.6
2410.8	2571.8
2450.4	2607.0
2500.4	2642.3
2544	2677.5
2571.5	2712.7
2596.8	2748.0
2603.3	2783.2
2634.1	2818.4
2668.4	2853.7
2719.6	2888.9
2739.4	2924.2
2800.5	2959.4
2833.8	2994.6
2872	3029.9
2879.5	3065.1
2950.1	3100.3
2989.9	3135.6
3050.7	3170.8
3123.6	3206.0
3201.1	3241.3
3213.2	3276.5
3233.6	3311.8
3261.8	3347.0
3291.8	3382.2
3289.7	3417.5
3313.5	3452.7
3338.3	3487.9
3406.2	3523.2
3464.8	3558.4
3489.2	3593.6
3504.1	3628.9
3558.3	3664.1
3567.6	3699.4
3588.3	3734.6
3571.4	3769.8
3566.5	3805.1
3573.9	3840.3
3605.2	3875.5
3566.5	3910.8
3666.1	3946.0
3686.2	3981.2
3714.5	4016.5
3723.8	4051.7
3796.9	4087.0



1972Q2	90	3883.8	8100	349542
1972Q3	91	3922.3	8281	356929.3
1972Q4	92	3990.5	8464	367126
1973Q1	93	4092.3	8649	380583.9
1973Q2	94	4133.3	8836	388530.2
1973Q3	95	4117	9025	391115
1973Q4	96	4151.1	9216	398505.6
1974Q1	97	4119.3	9409	399572.1
1974Q2	98	4130.4	9604	404779.2
1974Q3	99	4084.5	9801	404365.5
1974Q4	100	4062	10000	406200
1975Q1	101	4010	10201	405010
1975Q2	102	4045.2	10404	412610.4
1975Q3	103	4115.4	10609	423886.2
1975Q4	104	4167.2	10816	433388.8
1976Q1	105	4266.1	11025	447940.5
1976Q2	106	4301.5	11236	455959
1976Q3	107	4321.9	11449	462443.3
1976Q4	108	4357.4	11664	470599.2
1977Q1	109	4410.5	11881	480744.5
1977Q2	110	4489.8	12100	493878
1977Q3	111	4570.6	12321	507336.6
1977Q4	112	4576.1	12544	512523.2
1978Q1	113	4588.9	12769	518545.7
1978Q2	114	4765.7	12996	543289.8
1978Q3	115	4811.7	13225	553345.5
1978Q4	116	4876	13456	565616
1979Q1	117	4888.3	13689	571931.1
1979Q2	118	4891.4	13924	577185.2
1979Q3	119	4926.2	14161	586217.8
1979Q4	120	4942.6	14400	593112
1980Q1	121	4958.9	14641	600026.9
1980Q2	122	4857.8	14884	592651.6
1980Q3	123	4850.3	15129	596586.9
1980Q4	124	4936.6	15376	612138.4
1981Q1	125	5032.5	15625	629062.5
1981Q2	126	4997.3	15876	629659.8
1981Q3	127	5056.8	16129	642213.6
1981Q4	128	4997.1	16384	639628.8
1982Q1	129	4914.3	16641	633944.7
1982Q2	130	4935.5	16900	641615
1982Q3	131	4912.1	17161	643485.1
1982Q4	132	4915.6	17424	648859.2
1983Q1	133	4972.4	17689	661329.2
1983Q2	134	5089.8	17956	682033.2

3883.8	4122.2
3922.3	4157.4
3990.5	4192.7
4092.3	4227.9
4133.3	4263.1
4117	4298.4
4151.1	4333.6
4119.3	4368.8
4130.4	4404.1
4084.5	4439.3
4062	4474.6
4010	4509.8
4045.2	4545.0
4115.4	4580.3
4167.2	4615.5
4266.1	4650.7
4301.5	4686.0
4321.9	4721.2
4357.4	4756.4
4410.5	4791.7
4489.8	4826.9
4570.6	4862.2
4576.1	4897.4
4588.9	4932.6
4765.7	4967.9
4811.7	5003.1
4876	5038.3
4888.3	5073.6
4891.4	5108.8
4926.2	5144.0
4942.6	5179.3
4958.9	5214.5
4857.8	5249.8
4850.3	5285.0
4936.6	5320.2
5032.5	5355.5
4997.3	5390.7
5056.8	5425.9
4997.1	5461.2
4914.3	5496.4
4935.5	5531.6
4912.1	5566.9
4915.6	5602.1
4972.4	5637.4
5089.8	5672.6

1983Q3	135	5180.4	18225	699354
1983Q4	136	5286.8	18496	719004.8
1984Q1	137	5402.3	18769	740115.1
1984Q2	138	5493.8	19044	758144.4
1984Q3	139	5541.3	19321	770240.7
1984Q4	140	5583.1	19600	781634
1985Q1	141	5629.7	19881	793787.7
1985Q2	142	5673.8	20164	805679.6
1985Q3	143	5758.6	20449	823479.8
1985Q4	144	5806	20736	836064
1986Q1	145	5858.9	21025	849540.5
1986Q2	146	5883.3	21316	858961.8
1986Q3	147	5937.9	21609	872871.3
1986Q4	148	5969.5	21904	883486
1987Q1	149	6013.3	22201	895981.7
1987Q2	150	6077.2	22500	911580
1987Q3	151	6128.1	22801	925343.1
1987Q4	152	6234.4	23104	947628.8
1988Q1	153	6275.9	23409	960212.7
1988Q2	154	6349.8	23716	977869.2
1988Q3	155	6382.3	24025	989256.5
1988Q4	156	6465.2	24336	1008571.2
1989Q1	157	6543.8	24649	1027376.6
1989Q2	158	6579.4	24964	1039545.2
1989Q3	159	6610.6	25281	1051085.4
1989Q4	160	6633.5	25600	1061360
1990Q1	161	6716.3	25921	1081324.3
1990Q2	162	6731.7	26244	1090535.4
1990Q3	163	6719.4	26569	1095262.2
1990Q4	164	6664.2	26896	1092928.8
1991Q1	165	6631.4	27225	1094181
1991Q2	166	6668.5	27556	1106971
1991Q3	167	6684.9	27889	1116378.3
1991Q4	168	6720.9	28224	1129111.2
1992Q1	169	6783.3	28561	1146377.7
1992Q2	170	6846.8	28900	1163956
1992Q3	171	6899.7	29241	1179848.7
1992Q4	172	6990.6	29584	1202383.2
1993Q1	173	6988.7	29929	1209045.1
1993Q2	174	7031.2	30276	1223428.8
1993Q3	175	7062	30625	1235850
1993Q4	176	7168.7	30976	1261691.2
1994Q1	177	7229.4	31329	1279603.8
1994Q2	178	7330.2	31684	1304775.6
1994Q3	179	7370.2	32041	1319265.8

5180.4	5707.8
5286.8	5743.1
5402.3	5778.3
5493.8	5813.5
5541.3	5848.8
5583.1	5884.0
5629.7	5919.2
5673.8	5954.5
5758.6	5989.7
5806	6025.0
5858.9	6060.2
5883.3	6095.4
5937.9	6130.7
5969.5	6165.9
6013.3	6201.1
6077.2	6236.4
6128.1	6271.6
6234.4	6306.8
6275.9	6342.1
6349.8	6377.3
6382.3	6412.6
6465.2	6447.8
6543.8	6483.0
6579.4	6518.3
6610.6	6553.5
6633.5	6588.7
6716.3	6624.0
6731.7	6659.2
6719.4	6694.4
6664.2	6729.7
6631.4	6764.9
6668.5	6800.2
6684.9	6835.4
6720.9	6870.6
6783.3	6905.9
6846.8	6941.1
6899.7	6976.3
6990.6	7011.6
6988.7	7046.8
7031.2	7082.0
7062	7117.3
7168.7	7152.5
7229.4	7187.8
7330.2	7223.0
7370.2	7258.2

1994Q4	180	7461.1	32400	1342998
1995Q1	181	7488.7	32761	1355454.7
1995Q2	182	7503.3	33124	1365600.6
1995Q3	183	7561.4	33489	1383736.2
1995Q4	184	7621.9	33856	1402429.6
1996Q1	185	7676.4	34225	1420134
1996Q2	186	7802.9	34596	1451339.4
1996Q3	187	7841.9	34969	1466435.3
1996Q4	188	7931.3	35344	1491084.4
1997Q1	189	8016.4	35721	1515099.6
1997Q2	190	8131.9	36100	1545061
1997Q3	191	8216.6	36481	1569370.6
1997Q4	192	8272.9	36864	1588396.8
1998Q1	193	8396.3	37249	1620485.9
1998Q2	194	8442.9	37636	1637922.6
1998Q3	195	8528.5	38025	1663057.5
1998Q4	196	8667.9	38416	1698908.4
1999Q1	197	8733.5	38809	1720499.5
1999Q2	198	8771.2	39204	1736697.6
1999Q3	199	8871.5	39601	1765428.5
1999Q4	200	9049.9	40000	1809980
2000Q1	201	9102.5	40401	1829602.5
2000Q2	202	9229.4	40804	1864338.8
2000Q3	203	9260.1	41209	1879800.3
2000Q4	204	9303.9	41616	1897995.6
sumace	20910	930779.7	2850730	120333057

7461.1	7293.5
7488.7	7328.7
7503.3	7363.9
7561.4	7399.2
7621.9	7434.4
7676.4	7469.6
7802.9	7504.9
7841.9	7540.1
7931.3	7575.4
8016.4	7610.6
8131.9	7645.8
8216.6	7681.1
8272.9	7716.3
8396.3	7751.5
8442.9	7786.8
8528.5	7822.0
8667.9	7857.2
8733.5	7892.5
8771.2	7927.7
8871.5	7963.0
9049.9	7998.2
9102.5	8033.4
9229.4	8068.7
9260.1	8103.9
9303.9	8139.1
930779.7	930779.7

$X^T X =$	204	20910
	20910	2850730

THEILOvU 0.03743

$\det(X^T X)$  144320820

$(X^T X)^{-1}$	0.0197527	-0.0001449
	-0.000145	1.414E-06

$X^T y =$	930779.7
	120333057

$b_0$	950.91895	950.919	gretl
$b_1$	35.236357	35.2364	

rezidua	abs.rezidua	rezidua^2	MAPE	AMAPE
624.3	624.34469	389806.294	0.3877	0.480884
637.4	637.40833	406289.384	0.3843	0.475644
666.4	666.37198	444051.611	0.3868	0.479468
662.0	662.03562	438291.161	0.3775	0.465278
646.4	646.39926	417832.006	0.3645	0.4457
641.4	641.3629	411346.375	0.3556	0.432471
642.2	642.22655	412454.938	0.3491	0.422883
610.5	610.49019	372698.271	0.3312	0.396924
596.7	596.65383	355995.795	0.3200	0.380914
562.9	562.91747	316876.083	0.3016	0.355211
539.5	539.48112	291039.876	0.2873	0.335444
566.4	566.44476	320859.666	0.2920	0.341854
567.0	567.0084	321498.528	0.2869	0.335013
548.0	547.97204	300273.362	0.2751	0.31892
500.0	500.03569	250035.689	0.2526	0.289125
433.1	433.09933	187575.03	0.2224	0.250166
388.2	388.16297	150670.493	0.2003	0.222568
355.8	355.82662	126612.58	0.1833	0.20182
341.6	341.59026	116683.904	0.1741	0.190704
345.3	345.2539	119200.256	0.1725	0.188842
367.2	367.21754	134848.724	0.1784	0.195903
364.9	364.88119	133138.279	0.1745	0.191181
357.5	357.54483	127838.304	0.1687	0.184289
333.5	333.50847	111227.9	0.1566	0.169867
289.2	289.17211	83620.511	0.1363	0.146312
270.6	270.63576	73243.7122	0.1266	0.135157
233.0	232.9994	54288.7196	0.1091	0.115415
232.9	232.86304	54225.1958	0.1073	0.113372
209.9	209.92668	44069.2124	0.0962	0.101036
169.7	169.69033	28794.8067	0.0779	0.081081
155.7	155.65397	24228.1579	0.0708	0.073385
97.5	97.517611	9509.68446	0.0448	0.045842
3.7	3.6812536	13.5516279	0.0017	0.00174
-19.3	19.255104	370.759025	0.0090	0.009001
-6.7	6.6914613	44.7756543	0.0031	0.003068
7.1	7.0721813	50.0157479	0.0032	0.003181
18.3	18.335824	336.202436	0.0081	0.008099
42.5	42.499466	1806.20464	0.0182	0.018389
6.3	6.263109	39.2265339	0.0027	0.00269
-21.3	21.273248	452.551101	0.0091	0.009053
-4.6	4.6096059	21.2484667	0.0019	0.001926
-51.6	51.645963	2667.30553	0.0217	0.021474
-82.5	82.482321	6803.33324	0.0346	0.034016
-148.4	148.41868	22028.104	0.0631	0.06115

$y_t^2$	$yv_t^2$
2593710.25	972502.29
2751617.44	1043240.94
2968729.00	1116462.78
3076165.21	1192167.83
3145302.25	1270356.07
3253333.69	1351027.52
3384864.04	1434182.18
3397754.89	1519820.03
3477106.09	1607941.08
3482702.44	1698545.34
3526884.00	1791632.80
3764376.04	1887203.46
3904576.00	1985257.32
3968860.84	2085794.39
3918420.25	2188814.65
3793924.84	2294318.12
3756231.61	2402304.79
3767481.00	2512774.66
3849444.00	2625727.73
4003600.81	2741164.01
4235775.61	2859083.48
4372281.00	2979486.16
4489737.21	3102372.04
4537326.01	3227741.12
4498641.00	3355593.41
4569761.29	3485928.89
4559506.09	3618747.58
4710636.16	3754049.47
4764179.29	3891834.56
4742377.29	4032102.85
4835161.21	4174854.35
4734976.00	4320089.04
4483382.76	4467806.94
4535622.09	4618008.04
4741506.25	4770692.34
4957302.25	4925859.84
5166529.00	5083510.55
5440089.76	5243644.45
5435425.96	5406261.56
5471388.81	5571361.87
5716881.00	5738945.38
5660592.64	5909012.10
5681548.96	6081562.01
5536138.41	6256595.13

-170.1	170.05504	28918.7152	0.0719	0.069367
-161.0	160.99139	25918.2286	0.0668	0.064622
-156.6	156.62775	24532.2522	0.0639	0.06194
-141.9	141.86411	20125.4251	0.0567	0.055171
-133.5	133.50047	17822.3743	0.0525	0.051135
-141.2	141.23682	19947.8401	0.0549	0.053456
-151.2	151.17318	22853.3304	0.0582	0.056569
-179.9	179.90954	32367.4418	0.0691	0.0668
-184.3	184.3459	33983.4091	0.0700	0.067618
-185.3	185.28225	34329.5131	0.0694	0.067106
-169.3	169.31861	28668.7917	0.0623	0.060379
-184.8	184.75497	34134.398	0.0674	0.065243
-158.9	158.89132	25246.4531	0.0567	0.055172
-160.8	160.82768	25865.5434	0.0568	0.055187
-157.9	157.86404	24921.0551	0.0550	0.053496
-185.6	185.6004	34447.5074	0.0645	0.062443
-150.2	150.23675	22571.0824	0.0509	0.049661
-145.7	145.67311	21220.6556	0.0487	0.047563
-120.1	120.10947	14426.2847	0.0394	0.038611
-82.4	82.445827	6797.31438	0.0264	0.026051
-40.2	40.182184	1614.60794	0.0126	0.012474
-63.3	63.318542	4009.23774	0.0197	0.019513
-78.2	78.154899	6108.18828	0.0242	0.023881
-85.2	85.191257	7257.55022	0.0261	0.025781
-90.4	90.427614	8177.1534	0.0275	0.027098
-127.8	127.76397	16323.6324	0.0388	0.038098
-139.2	139.20033	19376.7316	0.0420	0.041146
-149.6	149.63669	22391.1379	0.0448	0.043842
-117.0	116.97304	13682.693	0.0343	0.033762
-93.6	93.609401	8762.72001	0.0270	0.026657
-104.4	104.44576	10908.9165	0.0299	0.029493
-124.8	124.78212	15570.5765	0.0356	0.034987
-105.8	105.81847	11197.5494	0.0297	0.029303
-131.8	131.75483	17359.3355	0.0369	0.036261
-146.3	146.29119	21401.1118	0.0408	0.039954
-198.4	198.42755	39373.491	0.0556	0.054058
-238.6	238.5639	56912.736	0.0669	0.064725
-266.4	266.40026	70969.099	0.0745	0.071862
-270.3	270.33662	73081.8872	0.0750	0.072275
-344.3	344.27298	118523.882	0.0965	0.092085
-279.9	279.90933	78349.2348	0.0764	0.073543
-295.0	295.04569	87051.9595	0.0800	0.076961
-302.0	301.98205	91193.1573	0.0813	0.078123
-327.9	327.91841	107530.481	0.0881	0.084346
-290.1	290.05476	84131.7655	0.0764	0.073582

5600322.25	6434111.45
5811956.64	6614110.97
6004460.16	6796593.69
6252000.16	6981559.62
6471936.00	7169008.74
6612612.25	7358941.07
6743370.24	7551356.60
6777170.89	7746255.33
6938482.81	7943637.26
7120358.56	8143502.40
7396224.16	8345850.74
7504312.36	8550682.27
7842800.25	8757997.01
8030422.44	8967794.96
8248384.00	9180076.10
8291520.25	9394840.44
8703090.01	9612087.99
8939502.01	9831818.74
9306770.49	10054032.69
9756876.96	10278729.84
10247041.21	10505910.20
10324654.24	10735573.75
10456168.96	10967720.51
10639339.24	11202350.47
10835947.24	11439463.63
10822126.09	11679060.00
10979282.25	11921139.56
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11602198.44	12412748.30
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12174516.64	12914289.84
12278716.81	13168785.41
12661498.89	13425764.19
12727769.76	13685226.17
12875896.89	13947171.35
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12719922.25	14478511.31
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12997467.04	15019784.08
12719922.25	15294145.27
13440289.21	15570989.66
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13797510.25	16132128.04
13866686.44	16416422.04
14416449.61	16703199.23

-238.4	238.39112	56830.3262	0.0614	0.059553	15083902.44	16992459.63
-235.1	235.12748	55284.9308	0.0599	0.058202	15384437.29	17284203.23
-202.2	202.16384	40870.2162	0.0507	0.04941	15924090.25	17578430.03
-135.6	135.60019	18387.4122	0.0331	0.032595	16746919.29	17875140.04
-129.8	129.83655	16857.5297	0.0314	0.030927	17084168.89	18174333.24
-181.4	181.37291	32896.1316	0.0441	0.043105	16949689.00	18476009.65
-182.5	182.50926	33309.6318	0.0440	0.043021	17231631.21	18780169.26
-249.5	249.54562	62273.0176	0.0606	0.058799	16968632.49	19086812.07
-273.7	273.68198	74901.8261	0.0663	0.064136	17060204.16	19395938.08
-354.8	354.81834	125896.052	0.0869	0.083253	16683140.25	19707547.30
-412.6	412.55469	170201.376	0.1016	0.096656	16499844.00	20021639.72
-499.8	499.79105	249791.096	0.1246	0.117325	16080100.00	20338215.33
-499.8	499.82741	249827.439	0.1236	0.116371	16363643.04	20657274.15
-464.9	464.86377	216098.322	0.1130	0.106919	16936517.16	20978816.17
-448.3	448.30012	200973.002	0.1076	0.102087	17365555.84	21302841.40
-384.6	384.63648	147945.223	0.0902	0.086272	18199609.21	21629349.82
-384.5	384.47284	147819.364	0.0894	0.085557	18502902.25	21958341.45
-399.3	399.3092	159447.835	0.0924	0.088312	18678819.61	22289816.28
-399.0	399.04555	159237.354	0.0916	0.087569	18986934.76	22623774.31
-381.2	381.18191	145299.65	0.0864	0.082846	19452510.25	22960215.54
-337.1	337.11827	113648.727	0.0751	0.072368	20158304.04	23299139.98
-291.6	291.55463	85004.1002	0.0638	0.061817	20890384.36	23640547.61
-321.3	321.29098	103227.896	0.0702	0.067829	20940691.21	23984438.45
-343.7	343.72734	118148.485	0.0749	0.0722	21058003.21	24330812.49
-202.2	202.1637	40870.1611	0.0424	0.04154	22711896.49	24679669.73
-191.4	191.40006	36633.9815	0.0398	0.039002	23152456.89	25031010.17
-162.3	162.33641	26353.1112	0.0333	0.032748	23775376.00	25384833.82
-185.3	185.27277	34325.9997	0.0379	0.037196	23895476.89	25741140.66
-217.4	217.40913	47266.7292	0.0444	0.043481	23925793.96	26099930.71
-217.8	217.84549	47456.6557	0.0442	0.043265	24267446.44	26461203.96
-236.7	236.68184	56018.295	0.0479	0.046766	24429294.76	26824960.41
-255.6	255.6182	65340.6646	0.0515	0.050252	24590689.21	27191200.07
-392.0	391.95456	153628.376	0.0807	0.077557	23598220.84	27559922.92
-434.7	434.69092	188956.192	0.0896	0.085778	23525410.09	27931128.98
-383.6	383.62727	147169.885	0.0777	0.074804	24370019.56	28304818.24
-323.0	322.96363	104305.507	0.0642	0.06218	25326056.25	28680990.70
-393.4	393.39999	154763.551	0.0787	0.075741	24973007.29	29059646.36
-369.1	369.13635	136261.642	0.0730	0.070427	25571226.24	29440785.22
-464.1	464.0727	215363.474	0.0929	0.088747	24971008.41	29824407.29
-582.1	582.10906	338850.958	0.1185	0.111829	24150344.49	30210512.56
-596.1	596.14542	355389.359	0.1208	0.113908	24359160.25	30599101.03
-654.8	654.78178	428739.173	0.1333	0.12497	24128726.41	30990172.70
-686.5	686.51813	471307.146	0.1397	0.130545	24163123.36	31383727.57
-665.0	664.95449	442164.474	0.1337	0.125348	24724761.76	31779765.65
-582.8	582.79085	339645.172	0.1145	0.108301	25906064.04	32178286.92

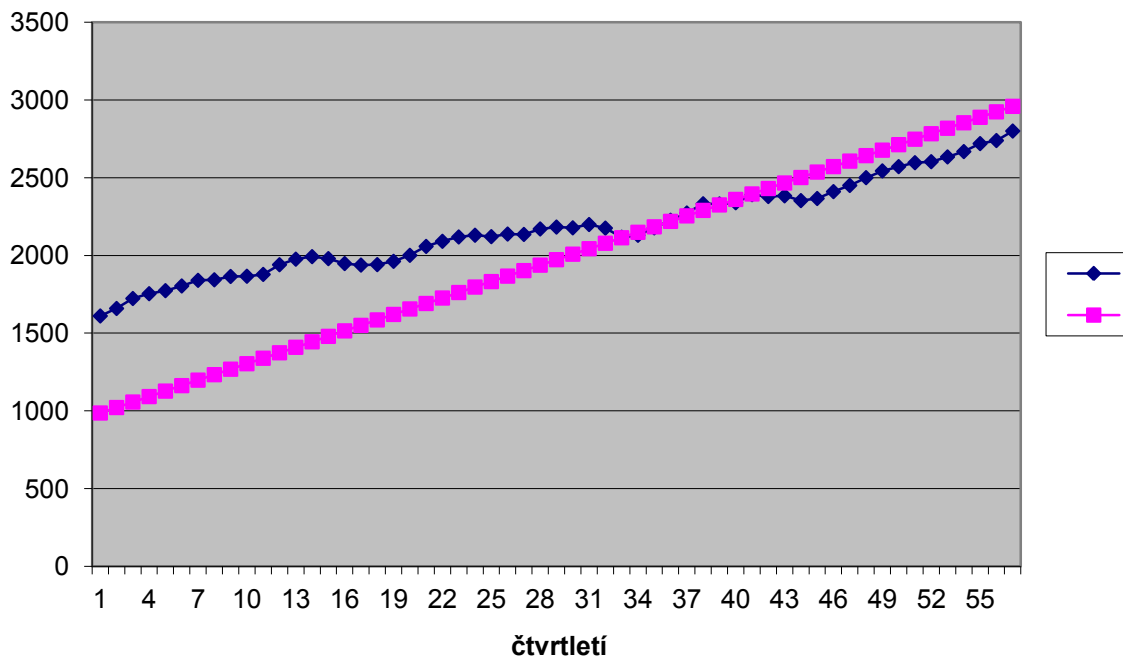
-527.4	527.4272	278179.456	0.1018	0.09688	26836544.16	32579291.40
-456.3	456.26356	208176.438	0.0863	0.082732	27950254.24	32982779.08
-376.0	375.99992	141375.94	0.0696	0.067259	29184845.29	33388749.96
-319.7	319.73628	102231.287	0.0582	0.056554	30181838.44	33797204.05
-307.5	307.47263	94539.4211	0.0555	0.05399	30706005.69	34208141.33
-300.9	300.90899	90546.2215	0.0539	0.052482	31171005.61	34621561.82
-289.5	289.54535	83836.5094	0.0514	0.050142	31693522.09	35037465.51
-280.7	280.68171	78782.2206	0.0495	0.048276	32192006.44	35455852.40
-231.1	231.11806	53415.5597	0.0401	0.039345	33161473.96	35876722.49
-219.0	218.95442	47941.0388	0.0377	0.037014	33709636.00	36300075.79
-201.3	201.29078	40517.9778	0.0344	0.033776	34326709.21	36725912.28
-212.1	212.12714	44997.9221	0.0361	0.035417	34613218.89	37154231.98
-192.8	192.76349	37157.7647	0.0325	0.031945	35258656.41	37585034.88
-196.4	196.39985	38572.9017	0.0329	0.032368	35634930.25	38018320.98
-187.8	187.83621	35282.4414	0.0312	0.030756	36159776.89	38454090.28
-159.2	159.17257	25335.9059	0.0262	0.025853	36932359.84	38892342.79
-143.5	143.50892	20594.8112	0.0234	0.023147	37553609.61	39333078.49
-72.4	72.445281	5248.31879	0.0116	0.011553	38867743.36	39776297.40
-66.2	66.181639	4380.00931	0.0105	0.01049	39386920.81	40221999.51
-27.5	27.517996	757.240115	0.0043	0.004324	40319960.04	40670184.82
-30.3	30.254354	915.325914	0.0047	0.004729	40733753.29	41120853.34
17.4	17.409289	303.083341	0.0027	0.002696	41798811.04	41574005.05
60.8	60.772931	3693.3492	0.0093	0.00933	42821318.44	42029639.97
61.1	61.136574	3737.68069	0.0093	0.009335	43288504.36	42487758.09
57.1	57.100217	3260.43474	0.0086	0.008675	43700032.36	42948359.41
44.8	44.763859	2003.80309	0.0067	0.006771	44003322.25	43411443.93
92.3	92.327502	8524.36758	0.0137	0.013842	45108685.69	43877011.66
72.5	72.491144	5254.966	0.0108	0.010827	45315784.89	44345062.58
25.0	24.954787	622.741388	0.0037	0.003721	45150336.36	44815596.71
-65.5	65.481571	4287.83608	0.0098	0.009778	44411561.64	45288614.04
-133.5	133.51793	17827.0371	0.0201	0.019934	43975465.96	45764114.57
-131.7	131.65429	17332.8509	0.0197	0.01955	44468892.25	46242098.31
-150.5	150.49064	22647.4336	0.0225	0.022261	44687888.01	46722565.24
-149.7	149.727	22418.1746	0.0223	0.022032	45170496.81	47205515.38
-122.6	122.56336	15021.7767	0.0181	0.017907	46013158.89	47690948.72
-94.3	94.299715	8892.43628	0.0138	0.013679	46878670.24	48178865.26
-76.6	76.636073	5873.08763	0.0111	0.011046	47605860.09	48669265.00
-21.0	20.97243	439.842822	0.0030	0.002996	48868488.36	49162147.94
-58.1	58.108787	3376.63118	0.0083	0.00828	48841927.69	49657514.09
-50.8	50.845145	2585.22876	0.0072	0.007205	49437773.44	50155363.43
-55.3	55.281502	3056.0445	0.0078	0.007798	49871844.00	50655695.98
16.2	16.18214	261.861662	0.0023	0.00226	51390259.69	51158511.73
41.6	41.645783	1734.37122	0.0058	0.005777	52264224.36	51663810.69
107.2	107.20943	11493.8609	0.0146	0.014733	53731832.04	52171592.84
112.0	111.97307	12537.9679	0.0152	0.015309	54319848.04	52681858.20

167.6	167.63671	28102.0667	0.0225	0.022723
160.0	160.00035	25600.113	0.0214	0.021596
139.4	139.364	19422.3233	0.0186	0.018748
162.2	162.22764	26317.8066	0.0215	0.021687
187.5	187.49128	35152.9803	0.0246	0.024905
206.8	206.75492	42747.5983	0.0269	0.027302
298.0	298.01857	88815.0656	0.0382	0.038937
301.8	301.78221	91072.5013	0.0385	0.039238
355.9	355.94585	126697.449	0.0449	0.045909
405.8	405.80949	164681.345	0.0506	0.051937
486.1	486.07314	236267.094	0.0598	0.061615
535.5	535.53678	286799.641	0.0652	0.067373
556.6	556.60042	309804.029	0.0673	0.069622
644.8	644.76406	415720.698	0.0768	0.079858
656.1	656.12771	430503.567	0.0777	0.080855
706.5	706.49135	499130.026	0.0828	0.086418
810.7	810.65499	657161.515	0.0935	0.098112
841.0	841.01863	707312.343	0.0963	0.101169
843.5	843.48228	711462.351	0.0962	0.101022
908.5	908.54592	825455.687	0.1024	0.107939
1051.7	1051.7096	1106093	0.1162	0.123382
1069.1	1069.0732	1142917.52	0.1174	0.124776
1160.7	1160.7368	1347310.03	0.1258	0.134204
1156.2	1156.2005	1336799.57	0.1249	0.133172
1164.8	1164.7641	1356675.48	0.1252	0.133551
<b>7.5579E-10</b> (SE)	<b>59438.652</b> SAE	<b>28797095.1</b> SSE	<b>16.28503</b>	<b>17.33021</b>
<b>3.7049E-12</b> ME	<b>291.366</b> MAE	<b>141162.231</b> MSE	<b>7.983</b> MAPE	<b>8.495</b> AMAPE
		<b>375.716</b> RMSE		

55668013.21	53194606.76
56080627.69	53709838.52
56299510.89	54227553.48
57174769.96	54747751.64
58093359.61	55270433.01
58927116.96	55795597.57
60885248.41	56323245.34
61495395.61	56853376.31
62905519.69	57385990.48
64262668.96	57921087.86
66127797.61	58458668.43
67512515.56	58998732.21
68440874.41	59541279.19
70497853.69	60086309.37
71282560.41	60633822.75
72735312.25	61183819.34
75132490.41	61736299.12
76274022.25	62291262.11
76933949.44	62848708.30
78703512.25	63408637.69
81900690.01	63971050.29
82855506.25	64535946.08
85181824.36	65103325.08
85749452.01	65673187.28
86562555.21	66245532.68
<b>5153991741</b>	<b>5125194646</b>



### vyrovnání lineárním trendem











skutečnost  
vyrovnání

čtvrtletí	pořadí	GDPUSA= $y_t$	$t^2$	$t^3$	$t^4$	$t \cdot y_t$
1950Q1	1	1610.5	1	1	1	1610.5
1950Q2	2	1658.8	4	8	16	3317.6
1950Q3	3	1723	9	27	81	5169
1950Q4	4	1753.9	16	64	256	7015.6
1951Q1	5	1773.5	25	125	625	8867.5
1951Q2	6	1803.7	36	216	1296	10822.2
1951Q3	7	1839.8	49	343	2401	12878.6
1951Q4	8	1843.3	64	512	4096	14746.4
1952Q1	9	1864.7	81	729	6561	16782.3
1952Q2	10	1866.2	100	1000	10000	18662
1952Q3	11	1878	121	1331	14641	20658
1952Q4	12	1940.2	144	1728	20736	23282.4
1953Q1	13	1976	169	2197	28561	25688
1953Q2	14	1992.2	196	2744	38416	27890.8
1953Q3	15	1979.5	225	3375	50625	29692.5
1953Q4	16	1947.8	256	4096	65536	31164.8
1954Q1	17	1938.1	289	4913	83521	32947.7
1954Q2	18	1941	324	5832	104976	34938
1954Q3	19	1962	361	6859	130321	37278
1954Q4	20	2000.9	400	8000	160000	40018
1955Q1	21	2058.1	441	9261	194481	43220.1
1955Q2	22	2091	484	10648	234256	46002
1955Q3	23	2118.9	529	12167	279841	48734.7
1955Q4	24	2130.1	576	13824	331776	51122.4
1956Q1	25	2121	625	15625	390625	53025
1956Q2	26	2137.7	676	17576	456976	55580.2
1956Q3	27	2135.3	729	19683	531441	57653.1
1956Q4	28	2170.4	784	21952	614656	60771.2
1957Q1	29	2182.7	841	24389	707281	63298.3
1957Q2	30	2177.7	900	27000	810000	65331
1957Q3	31	2198.9	961	29791	923521	68165.9
1957Q4	32	2176	1024	32768	1048576	69632
1958Q1	33	2117.4	1089	35937	1185921	69874.2
1958Q2	34	2129.7	1156	39304	1336336	72409.8
1958Q3	35	2177.5	1225	42875	1500625	76212.5
1958Q4	36	2226.5	1296	46656	1679616	80154
1959Q1	37	2273	1369	50653	1874161	84101
1959Q2	38	2332.4	1444	54872	2085136	88631.2
1959Q3	39	2331.4	1521	59319	2313441	90924.6
1959Q4	40	2339.1	1600	64000	2560000	93564
1960Q1	41	2391	1681	68921	2825761	98031
1960Q2	42	2379.2	1764	74088	3111696	99926.4

1960Q3	43	2383.6	1849	79507	3418801	102494.8
1960Q4	44	2352.9	1936	85184	3748096	103527.6
1961Q1	45	2366.5	2025	91125	4100625	106492.5
1961Q2	46	2410.8	2116	97336	4477456	110896.8
1961Q3	47	2450.4	2209	103823	4879681	115168.8
1961Q4	48	2500.4	2304	110592	5308416	120019.2
1962Q1	49	2544	2401	117649	5764801	124656
1962Q2	50	2571.5	2500	125000	6250000	128575
1962Q3	51	2596.8	2601	132651	6765201	132436.8
1962Q4	52	2603.3	2704	140608	7311616	135371.6
1963Q1	53	2634.1	2809	148877	7890481	139607.3
1963Q2	54	2668.4	2916	157464	8503056	144093.6
1963Q3	55	2719.6	3025	166375	9150625	149578
1963Q4	56	2739.4	3136	175616	9834496	153406.4
1964Q1	57	2800.5	3249	185193	10556001	159628.5
1964Q2	58	2833.8	3364	195112	11316496	164360.4
1964Q3	59	2872	3481	205379	12117361	169448
1964Q4	60	2879.5	3600	216000	12960000	172770
1965Q1	61	2950.1	3721	226981	13845841	179956.1
1965Q2	62	2989.9	3844	238328	14776336	185373.8
1965Q3	63	3050.7	3969	250047	15752961	192194.1
1965Q4	64	3123.6	4096	262144	16777216	199910.4
1966Q1	65	3201.1	4225	274625	17850625	208071.5
1966Q2	66	3213.2	4356	287496	18974736	212071.2
1966Q3	67	3233.6	4489	300763	20151121	216651.2
1966Q4	68	3261.8	4624	314432	21381376	221802.4
1967Q1	69	3291.8	4761	328509	22667121	227134.2
1967Q2	70	3289.7	4900	343000	24010000	230279
1967Q3	71	3313.5	5041	357911	25411681	235258.5
1967Q4	72	3338.3	5184	373248	26873856	240357.6
1968Q1	73	3406.2	5329	389017	28398241	248652.6
1968Q2	74	3464.8	5476	405224	29986576	256395.2
1968Q3	75	3489.2	5625	421875	31640625	261690
1968Q4	76	3504.1	5776	438976	33362176	266311.6
1969Q1	77	3558.3	5929	456533	35153041	273989.1
1969Q2	78	3567.6	6084	474552	37015056	278272.8
1969Q3	79	3588.3	6241	493039	38950081	283475.7
1969Q4	80	3571.4	6400	512000	40960000	285712
1970Q1	81	3566.5	6561	531441	43046721	288886.5
1970Q2	82	3573.9	6724	551368	45212176	293059.8
1970Q3	83	3605.2	6889	571787	47458321	299231.6
1970Q4	84	3566.5	7056	592704	49787136	299586
1971Q1	85	3666.1	7225	614125	52200625	311618.5



1971Q2	86	3686.2	7396	636056	54700816	317013.2
1971Q3	87	3714.5	7569	658503	57289761	323161.5
1971Q4	88	3723.8	7744	681472	59969536	327694.4
1972Q1	89	3796.9	7921	704969	62742241	337924.1
1972Q2	90	3883.8	8100	729000	65610000	349542
1972Q3	91	3922.3	8281	753571	68574961	356929.3
1972Q4	92	3990.5	8464	778688	71639296	367126
1973Q1	93	4092.3	8649	804357	74805201	380583.9
1973Q2	94	4133.3	8836	830584	78074896	388530.2
1973Q3	95	4117	9025	857375	81450625	391115
1973Q4	96	4151.1	9216	884736	84934656	398505.6
1974Q1	97	4119.3	9409	912673	88529281	399572.1
1974Q2	98	4130.4	9604	941192	92236816	404779.2
1974Q3	99	4084.5	9801	970299	96059601	404365.5
1974Q4	100	4062	10000	1000000	100000000	406200
1975Q1	101	4010	10201	1030301	104060401	405010
1975Q2	102	4045.2	10404	1061208	108243216	412610.4
1975Q3	103	4115.4	10609	1092727	112550881	423886.2
1975Q4	104	4167.2	10816	1124864	116985856	433388.8
1976Q1	105	4266.1	11025	1157625	121550625	447940.5
1976Q2	106	4301.5	11236	1191016	126247696	455959
1976Q3	107	4321.9	11449	1225043	131079601	462443.3
1976Q4	108	4357.4	11664	1259712	136048896	470599.2
1977Q1	109	4410.5	11881	1295029	141158161	480744.5
1977Q2	110	4489.8	12100	1331000	146410000	493878
1977Q3	111	4570.6	12321	1367631	151807041	507336.6
1977Q4	112	4576.1	12544	1404928	157351936	512523.2
1978Q1	113	4588.9	12769	1442897	163047361	518545.7
1978Q2	114	4765.7	12996	1481544	168896016	543289.8
1978Q3	115	4811.7	13225	1520875	174900625	553345.5
1978Q4	116	4876	13456	1560896	181063936	565616
1979Q1	117	4888.3	13689	1601613	187388721	571931.1
1979Q2	118	4891.4	13924	1643032	193877776	577185.2
1979Q3	119	4926.2	14161	1685159	200533921	586217.8
1979Q4	120	4942.6	14400	1728000	207360000	593112
1980Q1	121	4958.9	14641	1771561	214358881	600026.9
1980Q2	122	4857.8	14884	1815848	221533456	592651.6
1980Q3	123	4850.3	15129	1860867	228886641	596586.9
1980Q4	124	4936.6	15376	1906624	236421376	612138.4
1981Q1	125	5032.5	15625	1953125	244140625	629062.5
1981Q2	126	4997.3	15876	2000376	252047376	629659.8
1981Q3	127	5056.8	16129	2048383	260144641	642213.6
1981Q4	128	4997.1	16384	2097152	268435456	639628.8

1982Q1	129	<b>4914.3</b>	16641	2146689	276922881	633944.7
1982Q2	130	<b>4935.5</b>	16900	2197000	285610000	641615
1982Q3	131	<b>4912.1</b>	17161	2248091	294499921	643485.1
1982Q4	132	<b>4915.6</b>	17424	2299968	303595776	648859.2
1983Q1	133	<b>4972.4</b>	17689	2352637	312900721	661329.2
1983Q2	134	<b>5089.8</b>	17956	2406104	322417936	682033.2
1983Q3	135	<b>5180.4</b>	18225	2460375	332150625	699354
1983Q4	136	<b>5286.8</b>	18496	2515456	342102016	719004.8
1984Q1	137	<b>5402.3</b>	18769	2571353	352275361	740115.1
1984Q2	138	<b>5493.8</b>	19044	2628072	362673936	758144.4
1984Q3	139	<b>5541.3</b>	19321	2685619	373301041	770240.7
1984Q4	140	<b>5583.1</b>	19600	2744000	384160000	781634
1985Q1	141	<b>5629.7</b>	19881	2803221	395254161	793787.7
1985Q2	142	<b>5673.8</b>	20164	2863288	406586896	805679.6
1985Q3	143	<b>5758.6</b>	20449	2924207	418161601	823479.8
1985Q4	144	<b>5806</b>	20736	2985984	429981696	836064
1986Q1	145	<b>5858.9</b>	21025	3048625	442050625	849540.5
1986Q2	146	<b>5883.3</b>	21316	3112136	454371856	858961.8
1986Q3	147	<b>5937.9</b>	21609	3176523	466948881	872871.3
1986Q4	148	<b>5969.5</b>	21904	3241792	479785216	883486
1987Q1	149	<b>6013.3</b>	22201	3307949	492884401	895981.7
1987Q2	150	<b>6077.2</b>	22500	3375000	506250000	911580
1987Q3	151	<b>6128.1</b>	22801	3442951	519885601	925343.1
1987Q4	152	<b>6234.4</b>	23104	3511808	533794816	947628.8
1988Q1	153	<b>6275.9</b>	23409	3581577	547981281	960212.7
1988Q2	154	<b>6349.8</b>	23716	3652264	562448656	977869.2
1988Q3	155	<b>6382.3</b>	24025	3723875	577200625	989256.5
1988Q4	156	<b>6465.2</b>	24336	3796416	592240896	1008571.2
1989Q1	157	<b>6543.8</b>	24649	3869893	607573201	1027376.6
1989Q2	158	<b>6579.4</b>	24964	3944312	623201296	1039545.2
1989Q3	159	<b>6610.6</b>	25281	4019679	639128961	1051085.4
1989Q4	160	<b>6633.5</b>	25600	4096000	655360000	1061360
1990Q1	161	<b>6716.3</b>	25921	4173281	671898241	1081324.3
1990Q2	162	<b>6731.7</b>	26244	4251528	688747536	1090535.4
1990Q3	163	<b>6719.4</b>	26569	4330747	705911761	1095262.2
1990Q4	164	<b>6664.2</b>	26896	4410944	723394816	1092928.8
1991Q1	165	<b>6631.4</b>	27225	4492125	741200625	1094181
1991Q2	166	<b>6668.5</b>	27556	4574296	759333136	1106971
1991Q3	167	<b>6684.9</b>	27889	4657463	777796321	1116378.3
1991Q4	168	<b>6720.9</b>	28224	4741632	796594176	1129111.2
1992Q1	169	<b>6783.3</b>	28561	4826809	815730721	1146377.7
1992Q2	170	<b>6846.8</b>	28900	4913000	835210000	1163956
1992Q3	171	<b>6899.7</b>	29241	5000211	855036081	1179848.7

1992Q4	172	6990.6	29584	5088448	875213056	1202383.2
1993Q1	173	6988.7	29929	5177717	895745041	1209045.1
1993Q2	174	7031.2	30276	5268024	916636176	1223428.8
1993Q3	175	7062	30625	5359375	937890625	1235850
1993Q4	176	7168.7	30976	5451776	959512576	1261691.2
1994Q1	177	7229.4	31329	5545233	981506241	1279603.8
1994Q2	178	7330.2	31684	5639752	1003875856	1304775.6
1994Q3	179	7370.2	32041	5735339	1026625681	1319265.8
1994Q4	180	7461.1	32400	5832000	1049760000	1342998
1995Q1	181	7488.7	32761	5929741	1073283121	1355454.7
1995Q2	182	7503.3	33124	6028568	1097199376	1365600.6
1995Q3	183	7561.4	33489	6128487	1121513121	1383736.2
1995Q4	184	7621.9	33856	6229504	1146228736	1402429.6
1996Q1	185	7676.4	34225	6331625	1171350625	1420134
1996Q2	186	7802.9	34596	6434856	1196883216	1451339.4
1996Q3	187	7841.9	34969	6539203	1222830961	1466435.3
1996Q4	188	7931.3	35344	6644672	1249198336	1491084.4
1997Q1	189	8016.4	35721	6751269	1275989841	1515099.6
1997Q2	190	8131.9	36100	6859000	1303210000	1545061
1997Q3	191	8216.6	36481	6967871	1330863361	1569370.6
1997Q4	192	8272.9	36864	7077888	1358954496	1588396.8
1998Q1	193	8396.3	37249	7189057	1387488001	1620485.9
1998Q2	194	8442.9	37636	7301384	1416468496	1637922.6
1998Q3	195	8528.5	38025	7414875	1445900625	1663057.5
1998Q4	196	8667.9	38416	7529536	1475789056	1698908.4
1999Q1	197	8733.5	38809	7645373	1506138481	1720499.5
1999Q2	198	8771.2	39204	7762392	1536953616	1736697.6
1999Q3	199	8871.5	39601	7880599	1568239201	1765428.5
1999Q4	200	9049.9	40000	8000000	1600000000	1809980
2000Q1	201	9102.5	40401	8120601	1632240801	1829602.5
2000Q2	202	9229.4	40804	8242408	1664966416	1864338.8
2000Q3	203	9260.1	41209	8365427	1698181681	1879800.3
2000Q4	204	9303.9	41616	8489664	1731891456	1897995.6
sumace	20910	930779.7	2850730	437228100	7.153E+10	120333057

$X^T X =$	204	20910	2850730
	20910	2850730	437228100
	2850730	437228100	71529947014

$adj(X^T X) =$

det (X'X)	2.8324E+17
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(X'X) <sup>-1</sup>	0.044994133	-0.000880072	3.58628E-06
	-0.000880072	2.28267E-05	-1.04455E-07
	3.58628E-06	-1.04455E-07	5.09535E-10

X'y =	930779.7
	120333056.5
	18307309272

b0	1632.922725	1738.32	gretl
b1	15.37216985	12.3023	
b2	0.096898476	0.111874	

$t^*_{yt}$	skutečnost	vyrovnání	rezidua	abs.rezidua
1610.5	1610.5	1648.4	-37.9	37.89
6635.2	1658.8	1664.1	-5.3	5.25
15507	1723	1679.9	43.1	43.09
28062.4	1753.9	1696.0	57.9	57.94
44337.5	1773.5	1712.2	61.3	61.29
64933.2	1803.7	1728.6	75.1	75.06
90150.2	1839.8	1745.3	94.5	94.52
117971.2	1843.3	1762.1	81.2	81.20
151040.7	1864.7	1779.1	85.6	85.58
186620	1866.2	1796.3	69.9	69.87
227238	1878	1813.7	64.3	64.26
279388.8	1940.2	1831.3	108.9	108.86
333944	1976	1849.1	126.9	126.86
390471.2	1992.2	1867.1	125.1	125.07
445387.5	1979.5	1885.3	94.2	94.19
498636.8	1947.8	1903.7	44.1	44.12
560110.9	1938.1	1922.3	15.8	15.85
628884	1941	1941.0	0.0	0.02
708282	1962	1960.0	2.0	2.03
800360	2000.9	1979.1	21.8	21.77
907622.1	2058.1	1998.5	59.6	59.63
1012044	2091	2018.0	73.0	72.99
1120898.1	2118.9	2037.7	81.2	81.16
1226937.6	2130.1	2057.7	72.4	72.43
1325625	2121	2077.8	43.2	43.21
1445085.2	2137.7	2098.1	39.6	39.60
1556633.7	2135.3	2118.6	16.7	16.69
1701593.6	2170.4	2139.3	31.1	31.09
1835650.7	2182.7	2160.2	22.5	22.49
1959930	2177.7	2181.3	-3.6	3.60
2113142.9	2198.9	2202.6	-3.7	3.68
2228224	2176	2224.1	-48.1	48.06
2305848.6	2117.4	2245.7	-128.3	128.33
2461933.2	2129.7	2267.6	-137.9	137.89
2667437.5	2177.5	2289.6	-112.1	112.15
2885544	2226.5	2311.9	-85.4	85.40
3111737	2273	2334.3	-61.3	61.35
3367985.6	2332.4	2357.0	-24.6	24.59
3546059.4	2331.4	2379.8	-48.4	48.42
3742560	2339.1	2402.8	-63.7	63.75
4019271	2391	2426.1	-35.1	35.07
4196908.8	2379.2	2449.5	-70.3	70.28

4407276.4	2383.6	2473.1	-89.5	89.49
4555214.4	2352.9	2496.9	-144.0	143.99
4792162.5	2366.5	2520.9	-154.4	154.39
5101252.8	2410.8	2545.1	-134.3	134.28
5412933.6	2450.4	2569.5	-119.1	119.06
5760921.6	2500.4	2594.0	-93.6	93.64
6108144	2544	2618.8	-74.8	74.81
6428750	2571.5	2643.8	-72.3	72.28
6754276.8	2596.8	2668.9	-72.1	72.14
7039323.2	2603.3	2694.3	-91.0	90.99
7399186.9	2634.1	2719.8	-85.7	85.74
7781054.4	2668.4	2745.6	-77.2	77.18
8226790	2719.6	2771.5	-51.9	51.91
8590758.4	2739.4	2797.6	-58.2	58.24
9098824.5	2800.5	2824.0	-23.5	23.46
164360.4	2833.8	2850.5	-16.7	16.68
169448	2872	2877.2	-5.2	5.18
172770	2879.5	2904.1	-24.6	24.59
10977322.1	2950.1	2931.2	18.9	18.92
11493175.6	2989.9	2958.5	31.4	31.43
12108228.3	3050.7	2986.0	64.7	64.74
12794265.6	3123.6	3013.6	110.0	109.96
13524647.5	3201.1	3041.5	159.6	159.59
13996699.2	3213.2	3069.6	143.6	143.62
14515630.4	3233.6	3097.8	135.8	135.76
15082563.2	3261.8	3126.3	135.5	135.51
15672259.8	3291.8	3154.9	136.9	136.86
16119530	3289.7	3183.8	105.9	105.92
16703353.5	3313.5	3212.8	100.7	100.69
17305747.2	3338.3	3242.0	96.3	96.26
18151639.8	3406.2	3271.5	134.7	134.74
18973244.8	3464.8	3301.1	163.7	163.72
19626750	3489.2	3330.9	158.3	158.31
20239681.6	3504.1	3360.9	143.2	143.21
21097160.7	3558.3	3391.1	167.2	167.21
21705278.4	3567.6	3421.5	146.1	146.12
22394580.3	3588.3	3452.1	136.2	136.23
22856960	3571.4	3482.8	88.6	88.55
23399806.5	3566.5	3513.8	52.7	52.68
24030903.6	3573.9	3545.0	28.9	28.91
24836222.8	3605.2	3576.3	28.9	28.85
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79337134.8
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81872486.4

<b>3686.2</b>	3671.6	14.6	14.61
<b>3714.5</b>	3703.7	10.8	10.77
<b>3723.8</b>	3736.1	-12.3	12.26
<b>3796.9</b>	3768.6	28.3	28.32
<b>3883.8</b>	3801.3	82.5	82.50
<b>3922.3</b>	3834.2	88.1	88.09
<b>3990.5</b>	3867.3	123.2	123.19
<b>4092.3</b>	3900.6	191.7	191.69
<b>4133.3</b>	3934.1	199.2	199.20
<b>4117</b>	3967.8	149.2	149.21
<b>4151.1</b>	4001.7	149.4	149.43
<b>4119.3</b>	4035.7	83.6	83.56
<b>4130.4</b>	4070.0	60.4	60.39
<b>4084.5</b>	4104.5	-20.0	19.97
<b>4062</b>	4139.1	-77.1	77.12
<b>4010</b>	4174.0	-164.0	163.97
<b>4045.2</b>	4209.0	-163.8	163.82
<b>4115.4</b>	4244.3	-128.9	128.85
<b>4167.2</b>	4279.7	-112.5	112.48
<b>4266.1</b>	4315.3	-49.2	49.21
<b>4301.5</b>	4351.1	-49.6	49.62
<b>4321.9</b>	4387.1	-65.2	65.24
<b>4357.4</b>	4423.3	-65.9	65.94
<b>4410.5</b>	4459.7	-49.2	49.24
<b>4489.8</b>	4496.3	-6.5	6.53
<b>4570.6</b>	4533.1	37.5	37.48
<b>4576.1</b>	4570.1	6.0	6.00
<b>4588.9</b>	4607.3	-18.4	18.37
<b>4765.7</b>	4644.6	121.1	121.06
<b>4811.7</b>	4682.2	129.5	129.50
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<b>4888.3</b>	4757.9	130.4	130.39
<b>4891.4</b>	4796.1	95.3	95.35
<b>4926.2</b>	4834.4	91.8	91.81
<b>4942.6</b>	4872.9	69.7	69.68
<b>4958.9</b>	4911.6	47.3	47.25
<b>4857.8</b>	4950.6	-92.8	92.76
<b>4850.3</b>	4989.7	-139.4	139.38
<b>4936.6</b>	5029.0	-92.4	92.38
<b>5032.5</b>	5068.5	-36.0	35.98
<b>4997.3</b>	5108.2	-110.9	110.88
<b>5056.8</b>	5148.1	-91.3	91.26
<b>4997.1</b>	5188.1	-191.0	191.05

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5286.8	5515.8	-229.0	228.97
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5493.8	5599.6	-105.8	105.82
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5583.1	5684.2	-101.1	101.14
5629.7	5726.8	-97.1	97.14
5673.8	5769.6	-95.8	95.83
5758.6	5812.6	-54.0	54.02
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5858.9	5899.2	-40.3	40.28
5883.3	5942.7	-59.4	59.45
5937.9	5986.5	-48.6	48.61
5969.5	6030.5	-61.0	60.97
6013.3	6074.6	-61.3	61.32
6077.2	6119.0	-41.8	41.76
6128.1	6163.5	-35.4	35.40
6234.4	6208.2	26.2	26.17
6275.9	6253.2	22.7	22.74
6349.8	6298.3	51.5	51.52
6382.3	6343.6	38.7	38.71
6465.2	6389.1	76.1	76.10
6543.8	6434.8	109.0	109.00
6579.4	6480.7	98.7	98.70
6610.6	6526.8	83.8	83.81
6633.5	6573.1	60.4	60.43
6716.3	6619.5	96.8	96.75
6731.7	6666.2	65.5	65.48
6719.4	6713.1	6.3	6.32
6664.2	6760.1	-95.9	95.94
6631.4	6807.4	-176.0	175.99
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6684.9	6902.5	-217.6	217.58
6720.9	6950.3	-229.4	229.41
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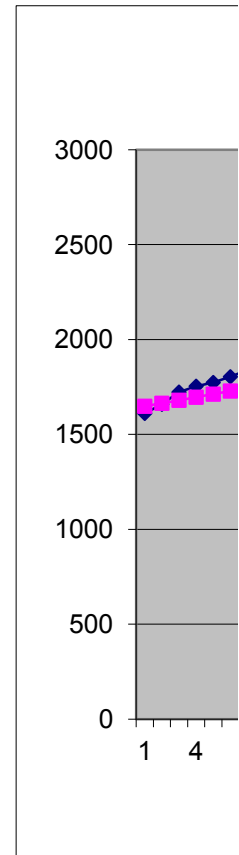
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216273750	7062	7290.6	-228.6	228.57
222057651.2	7168.7	7340.0	-171.3	171.25
226489872.6	7229.4	7389.5	-160.1	160.13
232250056.8	7330.2	7439.3	-109.1	109.10
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241739640	7461.1	7539.4	-78.3	78.32
245337300.7	7488.7	7589.8	-101.1	101.08
248539309.2	7503.3	7640.3	-137.0	137.02
253223724.6	7561.4	7691.1	-129.7	129.66
258047046.4	7621.9	7742.0	-120.1	120.10
262724790	7676.4	7793.1	-116.7	116.72
269949128.4	7802.9	7844.4	-41.5	41.55
274223401.1	7841.9	7896.0	-54.1	54.06
280323867.2	7931.3	7947.7	-16.4	16.37
286353824.4	8016.4	7999.6	16.8	16.83
293561590	8131.9	8051.7	80.2	80.23
299749784.6	8216.6	8104.0	112.6	112.64
304972185.6	8272.9	8156.4	116.5	116.46
312753778.7	8396.3	8209.1	187.2	187.18
317756984.4	8442.9	8262.0	180.9	180.91
324296212.5	8528.5	8315.1	213.4	213.44
332986046.4	8667.9	8368.3	299.6	299.58
338938401.5	8733.5	8421.8	311.7	311.73
343866124.8	8771.2	8475.4	295.8	295.78
351320271.5	8871.5	8529.3	342.2	342.24
361996000	9049.9	8583.3	466.6	466.60
367750102.5	9102.5	8637.5	465.0	464.98
376596437.6	9229.4	8691.9	537.5	537.45
381599460.9	9260.1	8746.6	513.5	513.54
387191102.4	9303.9	8801.4	502.5	502.53
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2.49272E+14	6.4654E+12	2.9586E+10
1.01578E+12	2.9586E+10	144320820



rezidua^2	APE	MAPE
1435.79	0.024	0.023
27.61	0.003	0.003
1856.63	0.025	0.025
3356.84	0.033	0.034
3756.95	0.035	0.035
5633.39	0.042	0.042
8934.80	0.051	0.053
6593.18	0.044	0.045
7323.76	0.046	0.047
4881.22	0.037	0.038
4129.18	0.034	0.035
11850.03	0.056	0.058
16094.28	0.064	0.066
15643.70	0.063	0.065
8872.24	0.048	0.049
1946.27	0.023	0.023
251.12	0.008	0.008
0.00	0.000	0.000
4.10	0.001	0.001
474.13	0.011	0.011
3555.67	0.029	0.029
5327.64	0.035	0.036
6586.63	0.038	0.039
5246.35	0.034	0.035
1867.23	0.020	0.021
1567.96	0.019	0.019
278.55	0.008	0.008
966.47	0.014	0.014
505.92	0.010	0.010
12.93	0.002	0.002
13.54	0.002	0.002
2309.40	0.022	0.022
16467.76	0.061	0.059
19013.97	0.065	0.063
12577.47	0.052	0.050
7293.38	0.038	0.038
3763.46	0.027	0.027
604.50	0.011	0.010
2344.49	0.021	0.021
4063.69	0.027	0.027
1229.77	0.015	0.015
4939.67	0.030	0.029

$y_t^2$	$yv_t^2$
2593710.25	2717195.50
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3145302.25	2931649.51
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3482702.44	3226816.81
3526884.00	3289657.54
3764376.04	3353814.05
3904576.00	3419306.81
3968860.84	3486156.53
3918420.25	3554384.10
3793924.84	3624010.69
3756231.61	3695057.64
3767481.00	3767546.56
3849444.00	3841499.26
4003600.81	3916937.79
4235775.61	3993884.42
4372281.00	4072361.63
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4742377.29	4758054.20
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20734.17	0.061	0.059
23836.20	0.065	0.063
18031.04	0.056	0.054
14176.10	0.049	0.047
8768.63	0.037	0.037
5596.88	0.029	0.029
5224.02	0.028	0.028
5203.65	0.028	0.027
8279.00	0.035	0.034
7350.58	0.033	0.032
5956.11	0.029	0.029
2694.64	0.019	0.019
3391.65	0.021	0.021
550.35	0.008	0.008
278.06	0.006	0.006
26.88	0.002	0.002
604.54	0.009	0.009
357.80	0.006	0.006
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832.53	0.008	0.008
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150.20	0.003	0.003
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7760.47	0.022	0.023
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39679.99	0.048	0.049
22264.34	0.036	0.037
22330.11	0.036	0.037
6982.11	0.020	0.020
3647.15	0.015	0.015
398.78	0.005	0.005
5948.18	0.019	0.019
26887.22	0.041	0.040
26835.61	0.040	0.040
16602.88	0.031	0.031
12652.27	0.027	0.027
2421.26	0.012	0.011
2462.54	0.012	0.011
4255.68	0.015	0.015
4348.20	0.015	0.015
2424.58	0.011	0.011
42.68	0.001	0.001
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36.00	0.001	0.001
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14654.87	0.025	0.026
16769.06	0.027	0.027
24348.38	0.032	0.033
17001.59	0.027	0.027
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19425.85	0.029	0.028
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8329.08	0.018	0.018
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23152456.89	21923039.94
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23925793.96	23002125.79
24267446.44	23371329.15
24429294.76	23745360.65
24590689.21	24124265.10
23598220.84	24508087.52
23525410.09	24896873.17
24370019.56	25290667.54
25326056.25	25689516.31
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25571226.24	26502561.05
24971008.41	26916849.55

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175609.99	0.084	0.081
117582.14	0.067	0.065
86283.41	0.057	0.055
52428.19	0.043	0.042
24117.31	0.029	0.028
11197.18	0.019	0.019
10106.24	0.018	0.018
10228.62	0.018	0.018
9435.65	0.017	0.017
9183.72	0.017	0.017
2918.15	0.009	0.009
2480.24	0.009	0.009
1622.30	0.007	0.007
3534.00	0.010	0.010
2363.02	0.008	0.008
3717.11	0.010	0.010
3760.03	0.010	0.010
1744.22	0.007	0.007
1253.34	0.006	0.006
684.61	0.004	0.004
517.06	0.004	0.004
2654.19	0.008	0.008
1498.08	0.006	0.006
5790.82	0.012	0.012
11880.14	0.017	0.017
9741.86	0.015	0.015
7024.43	0.013	0.013
3651.68	0.009	0.009
9361.05	0.014	0.015
4287.91	0.010	0.010
39.92	0.001	0.001
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30973.10	0.027	0.026
34721.60	0.028	0.028
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52628.88	0.034	0.034
46240.83	0.032	0.031
39903.08	0.029	0.029
38131.20	0.028	0.028

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26836544.16	29966212.90
27950254.24	30423741.16
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35634930.25	36366545.28
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40733753.29	40241196.74
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42821318.44	41406701.58
43288504.36	41999461.04
43700032.36	42598962.95
44003322.25	43205260.89
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45150336.36	45065470.21
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43975465.96	46340582.57
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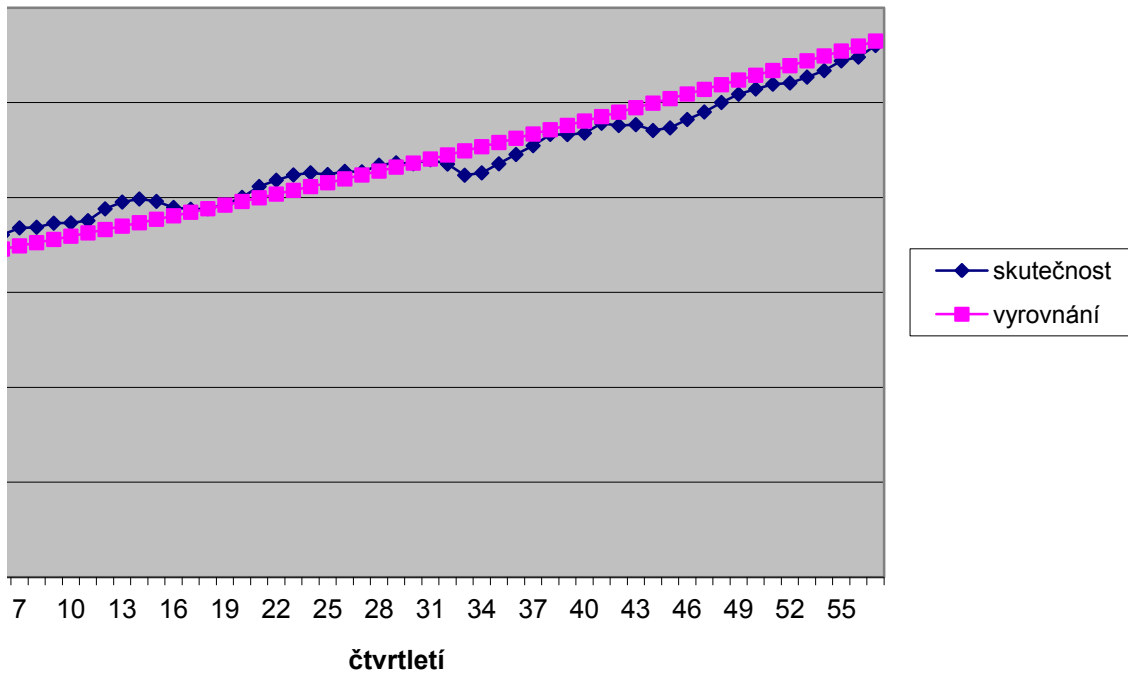
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25641.34	0.022	0.022
11902.87	0.015	0.015
14176.52	0.016	0.016
6134.64	0.010	0.010
10216.45	0.013	0.013
18775.24	0.018	0.018
16812.46	0.017	0.017
14423.24	0.016	0.016
13624.61	0.015	0.015
1726.07	0.005	0.005
2922.62	0.007	0.007
267.99	0.002	0.002
283.14	0.002	0.002
6436.86	0.010	0.010
12687.66	0.014	0.014
13561.82	0.014	0.014
35035.29	0.022	0.023
32726.72	0.021	0.022
45556.46	0.025	0.025
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<b>SSE</b>		
<b>22912.655</b>	<b>2.5972</b>	<b>2.5970</b>
<b>MSE</b>	<b>MAPE</b>	<b>AMAPE</b>
<b>151.369</b>		
<b>RMSE</b>		

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56299510.89	58374531.84
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62905519.69	63165464.68
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68440874.41	66527591.06
70497853.69	67389697.79
71282560.41	68260556.75
72735312.25	69140229.40
75132490.41	70028777.46
76274022.25	70926262.85
76933949.44	71832747.73
78703512.25	72748294.47
81900690.01	73672965.69
82855506.25	74606824.22
85181824.36	75549933.10
85749452.01	76502355.62
86562555.21	77464155.29
<b>5153991741</b>	<b>5143621876</b>





## vyrovnání kvadratickým trendem



čtvrtletí	pořadí	GDPUSA=y <sub>t</sub>	t <sup>2</sup>	t <sup>3</sup>	t <sup>4</sup>	t*y <sub>t</sub>
1950Q1	1	1610.5	1	1	1	1610.5
1950Q2	2	1658.8	4	8	16	3317.6
1950Q3	3	1723	9	27	81	5169
1950Q4	4	1753.9	16	64	256	7015.6
1951Q1	5	1773.5	25	125	625	8867.5
1951Q2	6	1803.7	36	216	1296	10822.2
1951Q3	7	1839.8	49	343	2401	12878.6
1951Q4	8	1843.3	64	512	4096	14746.4
1952Q1	9	1864.7	81	729	6561	16782.3
1952Q2	10	1866.2	100	1000	10000	18662
1952Q3	11	1878	121	1331	14641	20658
1952Q4	12	1940.2	144	1728	20736	23282.4
1953Q1	13	1976	169	2197	28561	25688
1953Q2	14	1992.2	196	2744	38416	27890.8
1953Q3	15	1979.5	225	3375	50625	29692.5
1953Q4	16	1947.8	256	4096	65536	31164.8
1954Q1	17	1938.1	289	4913	83521	32947.7
1954Q2	18	1941	324	5832	104976	34938
1954Q3	19	1962	361	6859	130321	37278
1954Q4	20	2000.9	400	8000	160000	40018
1955Q1	21	2058.1	441	9261	194481	43220.1
1955Q2	22	2091	484	10648	234256	46002
1955Q3	23	2118.9	529	12167	279841	48734.7
1955Q4	24	2130.1	576	13824	331776	51122.4
1956Q1	25	2121	625	15625	390625	53025
1956Q2	26	2137.7	676	17576	456976	55580.2
1956Q3	27	2135.3	729	19683	531441	57653.1
1956Q4	28	2170.4	784	21952	614656	60771.2
1957Q1	29	2182.7	841	24389	707281	63298.3
1957Q2	30	2177.7	900	27000	810000	65331
1957Q3	31	2198.9	961	29791	923521	68165.9
1957Q4	32	2176	1024	32768	1048576	69632
1958Q1	33	2117.4	1089	35937	1185921	69874.2
1958Q2	34	2129.7	1156	39304	1336336	72409.8
1958Q3	35	2177.5	1225	42875	1500625	76212.5
1958Q4	36	2226.5	1296	46656	1679616	80154
1959Q1	37	2273	1369	50653	1874161	84101
1959Q2	38	2332.4	1444	54872	2085136	88631.2
1959Q3	39	2331.4	1521	59319	2313441	90924.6
1959Q4	40	2339.1	1600	64000	2560000	93564
1960Q1	41	2391	1681	68921	2825761	98031
1960Q2	42	2379.2	1764	74088	3111696	99926.4
1960Q3	43	2383.6	1849	79507	3418801	102494.8

1960Q4	44	2352.9	1936	85184	3748096	103527.6
1961Q1	45	2366.5	2025	91125	4100625	106492.5
1961Q2	46	2410.8	2116	97336	4477456	110896.8
1961Q3	47	2450.4	2209	103823	4879681	115168.8
1961Q4	48	2500.4	2304	110592	5308416	120019.2
1962Q1	49	2544	2401	117649	5764801	124656
1962Q2	50	2571.5	2500	125000	6250000	128575
1962Q3	51	2596.8	2601	132651	6765201	132436.8
1962Q4	52	2603.3	2704	140608	7311616	135371.6
1963Q1	53	2634.1	2809	148877	7890481	139607.3
1963Q2	54	2668.4	2916	157464	8503056	144093.6
1963Q3	55	2719.6	3025	166375	9150625	149578
1963Q4	56	2739.4	3136	175616	9834496	153406.4
1964Q1	57	2800.5	3249	185193	10556001	159628.5
1964Q2	58	2833.8	3364	195112	11316496	164360.4
1964Q3	59	2872	3481	205379	12117361	169448
1964Q4	60	2879.5	3600	216000	12960000	172770
1965Q1	61	2950.1	3721	226981	13845841	179956.1
1965Q2	62	2989.9	3844	238328	14776336	185373.8
1965Q3	63	3050.7	3969	250047	15752961	192194.1
1965Q4	64	3123.6	4096	262144	16777216	199910.4
1966Q1	65	3201.1	4225	274625	17850625	208071.5
1966Q2	66	3213.2	4356	287496	18974736	212071.2
1966Q3	67	3233.6	4489	300763	20151121	216651.2
1966Q4	68	3261.8	4624	314432	21381376	221802.4
1967Q1	69	3291.8	4761	328509	22667121	227134.2
1967Q2	70	3289.7	4900	343000	24010000	230279
1967Q3	71	3313.5	5041	357911	25411681	235258.5
1967Q4	72	3338.3	5184	373248	26873856	240357.6
1968Q1	73	3406.2	5329	389017	28398241	248652.6
1968Q2	74	3464.8	5476	405224	29986576	256395.2
1968Q3	75	3489.2	5625	421875	31640625	261690
1968Q4	76	3504.1	5776	438976	33362176	266311.6
1969Q1	77	3558.3	5929	456533	35153041	273989.1
1969Q2	78	3567.6	6084	474552	37015056	278272.8
1969Q3	79	3588.3	6241	493039	38950081	283475.7
1969Q4	80	3571.4	6400	512000	40960000	285712
1970Q1	81	3566.5	6561	531441	43046721	288886.5
1970Q2	82	3573.9	6724	551368	45212176	293059.8
1970Q3	83	3605.2	6889	571787	47458321	299231.6
1970Q4	84	3566.5	7056	592704	49787136	299586
1971Q1	85	3666.1	7225	614125	52200625	311618.5
1971Q2	86	3686.2	7396	636056	54700816	317013.2
1971Q3	87	3714.5	7569	658503	57289761	323161.5

1971Q4	88	3723.8	7744	681472	59969536	327694.4
1972Q1	89	3796.9	7921	704969	62742241	337924.1
1972Q2	90	3883.8	8100	729000	65610000	349542
1972Q3	91	3922.3	8281	753571	68574961	356929.3
1972Q4	92	3990.5	8464	778688	71639296	367126
1973Q1	93	4092.3	8649	804357	74805201	380583.9
1973Q2	94	4133.3	8836	830584	78074896	388530.2
1973Q3	95	4117	9025	857375	81450625	391115
1973Q4	96	4151.1	9216	884736	84934656	398505.6
1974Q1	97	4119.3	9409	912673	88529281	399572.1
1974Q2	98	4130.4	9604	941192	92236816	404779.2
1974Q3	99	4084.5	9801	970299	96059601	404365.5
1974Q4	100	4062	10000	1000000	100000000	406200
1975Q1	101	4010	10201	1030301	104060401	405010
1975Q2	102	4045.2	10404	1061208	108243216	412610.4
1975Q3	103	4115.4	10609	1092727	112550881	423886.2
1975Q4	104	4167.2	10816	1124864	116985856	433388.8
1976Q1	105	4266.1	11025	1157625	121550625	447940.5
1976Q2	106	4301.5	11236	1191016	126247696	455959
1976Q3	107	4321.9	11449	1225043	131079601	462443.3
1976Q4	108	4357.4	11664	1259712	136048896	470599.2
1977Q1	109	4410.5	11881	1295029	141158161	480744.5
1977Q2	110	4489.8	12100	1331000	146410000	493878
1977Q3	111	4570.6	12321	1367631	151807041	507336.6
1977Q4	112	4576.1	12544	1404928	157351936	512523.2
1978Q1	113	4588.9	12769	1442897	163047361	518545.7
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1979Q1	117	4888.3	13689	1601613	187388721	571931.1
1979Q2	118	4891.4	13924	1643032	193877776	577185.2
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1979Q4	120	4942.6	14400	1728000	207360000	593112
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1980Q2	122	4857.8	14884	1815848	221533456	592651.6
1980Q3	123	4850.3	15129	1860867	228886641	596586.9
1980Q4	124	4936.6	15376	1906624	236421376	612138.4
1981Q1	125	5032.5	15625	1953125	244140625	629062.5
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1981Q3	127	5056.8	16129	2048383	260144641	642213.6
1981Q4	128	4997.1	16384	2097152	268435456	639628.8
1982Q1	129	4914.3	16641	2146689	276922881	633944.7
1982Q2	130	4935.5	16900	2197000	285610000	641615
1982Q3	131	4912.1	17161	2248091	294499921	643485.1

1982Q4	132	4915.6	17424	2299968	303595776	648859.2
1983Q1	133	4972.4	17689	2352637	312900721	661329.2
1983Q2	134	5089.8	17956	2406104	322417936	682033.2
1983Q3	135	5180.4	18225	2460375	332150625	699354
1983Q4	136	5286.8	18496	2515456	342102016	719004.8
1984Q1	137	5402.3	18769	2571353	352275361	740115.1
1984Q2	138	5493.8	19044	2628072	362673936	758144.4
1984Q3	139	5541.3	19321	2685619	373301041	770240.7
1984Q4	140	5583.1	19600	2744000	384160000	781634
1985Q1	141	5629.7	19881	2803221	395254161	793787.7
1985Q2	142	5673.8	20164	2863288	406586896	805679.6
1985Q3	143	5758.6	20449	2924207	418161601	823479.8
1985Q4	144	5806	20736	2985984	429981696	836064
1986Q1	145	5858.9	21025	3048625	442050625	849540.5
1986Q2	146	5883.3	21316	3112136	454371856	858961.8
1986Q3	147	5937.9	21609	3176523	466948881	872871.3
1986Q4	148	5969.5	21904	3241792	479785216	883486
1987Q1	149	6013.3	22201	3307949	492884401	895981.7
1987Q2	150	6077.2	22500	3375000	506250000	911580
1987Q3	151	6128.1	22801	3442951	519885601	925343.1
1987Q4	152	6234.4	23104	3511808	533794816	947628.8
1988Q1	153	6275.9	23409	3581577	547981281	960212.7
1988Q2	154	6349.8	23716	3652264	562448656	977869.2
1988Q3	155	6382.3	24025	3723875	577200625	989256.5
1988Q4	156	6465.2	24336	3796416	592240896	1008571.2
1989Q1	157	6543.8	24649	3869893	607573201	1027376.6
1989Q2	158	6579.4	24964	3944312	623201296	1039545.2
1989Q3	159	6610.6	25281	4019679	639128961	1051085.4
1989Q4	160	6633.5	25600	4096000	655360000	1061360
1990Q1	161	6716.3	25921	4173281	671898241	1081324.3
1990Q2	162	6731.7	26244	4251528	688747536	1090535.4
1990Q3	163	6719.4	26569	4330747	705911761	1095262.2
1990Q4	164	6664.2	26896	4410944	723394816	1092928.8
1991Q1	165	6631.4	27225	4492125	741200625	1094181
1991Q2	166	6668.5	27556	4574296	759333136	1106971
1991Q3	167	6684.9	27889	4657463	777796321	1116378.3
1991Q4	168	6720.9	28224	4741632	796594176	1129111.2
1992Q1	169	6783.3	28561	4826809	815730721	1146377.7
1992Q2	170	6846.8	28900	4913000	835210000	1163956
1992Q3	171	6899.7	29241	5000211	855036081	1179848.7
1992Q4	172	6990.6	29584	5088448	875213056	1202383.2
1993Q1	173	6988.7	29929	5177717	895745041	1209045.1
1993Q2	174	7031.2	30276	5268024	916636176	1223428.8
1993Q3	175	7062	30625	5359375	937890625	1235850

1993Q4	176	7168.7	30976	5451776	959512576	1261691.2
1994Q1	177	7229.4	31329	5545233	981506241	1279603.8
1994Q2	178	7330.2	31684	5639752	1003875856	1304775.6
1994Q3	179	7370.2	32041	5735339	1026625681	1319265.8
1994Q4	180	7461.1	32400	5832000	1049760000	1342998
1995Q1	181	7488.7	32761	5929741	1073283121	1355454.7
1995Q2	182	7503.3	33124	6028568	1097199376	1365600.6
1995Q3	183	7561.4	33489	6128487	1121513121	1383736.2
1995Q4	184	7621.9	33856	6229504	1146228736	1402429.6
1996Q1	185	7676.4	34225	6331625	1171350625	1420134
1996Q2	186	7802.9	34596	6434856	1196883216	1451339.4
1996Q3	187	7841.9	34969	6539203	1222830961	1466435.3
1996Q4	188	7931.3	35344	6644672	1249198336	1491084.4
1997Q1	189	8016.4	35721	6751269	1275989841	1515099.6
1997Q2	190	8131.9	36100	6859000	1303210000	1545061
1997Q3	191	8216.6	36481	6967871	1330863361	1569370.6
1997Q4	192	8272.9	36864	7077888	1358954496	1588396.8
1998Q1	193	8396.3	37249	7189057	1387488001	1620485.9
1998Q2	194	8442.9	37636	7301384	1416468496	1637922.6
1998Q3	195	8528.5	38025	7414875	1445900625	1663057.5
1998Q4	196	8667.9	38416	7529536	1475789056	1698908.4
1999Q1	197	8733.5	38809	7645373	1506138481	1720499.5
1999Q2	198	8771.2	39204	7762392	1536953616	1736697.6
1999Q3	199	8871.5	39601	7880599	1568239201	1765428.5
1999Q4	200	9049.9	40000	8000000	1600000000	1809980
2000Q1	201	9102.5	40401	8120601	1632240801	1829602.5
2000Q2	202	9229.4	40804	8242408	1664966416	1864338.8
2000Q3	203	9260.1	41209	8365427	1698181681	1879800.3
2000Q4	204	9303.9	41616	8489664	1731891456	1897995.6
sumace	20910	930779.7	2850730	437228100	7.153E+10	120333057

<b>b0</b>	1563.53	spočteno GRETlem
<b>b1</b>	22.4108	spočteno GRETlem
<b>b2</b>	-0.0111005	spočteno GRETlem
<b>b3</b>	0.000399916	spočteno GRETlem

$t^2 \cdot y_t$	skutečnost	vyrovnání	rezidua	abs.rezidua
1610.5	1610.5	1585.9	24.570	24.570
6635.2	1658.8	1608.3	50.490	50.490
15507	1723	1630.7	92.327	92.327
28062.4	1753.9	1653.0	100.879	100.879
44337.5	1773.5	1675.4	98.144	98.144
64933.2	1803.7	1697.7	106.018	106.018
90150.2	1839.8	1720.0	119.801	119.801
117971.2	1843.3	1742.3	100.989	100.989
151040.7	1864.7	1764.6	100.080	100.080
186620	1866.2	1786.9	79.272	79.272
227238	1878	1809.2	68.762	68.762
279388.8	1940.2	1831.6	108.648	108.648
333944	1976	1853.9	122.127	122.127
390471.2	1992.2	1876.2	115.997	115.997
445387.5	1979.5	1898.5	80.956	80.956
498636.8	1947.8	1920.9	26.901	26.901
560110.9	1938.1	1943.3	-5.170	5.170
628884	1941	1965.7	-24.660	24.660
708282	1962	1988.1	-26.071	26.071
800360	2000.9	2010.5	-9.605	9.605
907622.1	2058.1	2033.0	25.135	25.135
1012044	2091	2055.5	35.547	35.547
1120898.1	2118.9	2078.0	40.928	40.928
1226937.6	2130.1	2100.5	29.576	29.576
1325625	2121	2123.1	-2.111	2.111
1445085.2	2137.7	2145.7	-8.036	8.036
1556633.7	2135.3	2168.4	-33.101	33.101
1701593.6	2170.4	2191.1	-20.709	20.709
1835650.7	2182.7	2213.9	-31.161	31.161
1959930	2177.7	2236.7	-58.961	58.961
2113142.9	2198.9	2259.5	-60.611	60.611
2228224	2176	2282.4	-106.413	106.413
2305848.6	2117.4	2305.4	-187.970	187.970
2461933.2	2129.7	2328.4	-198.683	198.683
2667437.5	2177.5	2351.5	-173.956	173.956
2885544	2226.5	2374.6	-148.091	148.091
3111737	2273	2397.8	-124.790	124.790
3367985.6	2332.4	2421.1	-88.655	88.655
3546059.4	2331.4	2444.4	-112.990	112.990
3742560	2339.1	2467.8	-128.696	128.696
4019271	2391	2491.3	-100.275	100.275
4196908.8	2379.2	2514.8	-135.631	135.631
4407276.4	2383.6	2538.5	-154.866	154.866

4555214.4		2352.9	2562.2	-209.281	209.281
4792162.5		2366.5	2586.0	-219.480	219.480
5101252.8		2410.8	2609.9	-199.064	199.064
5412933.6		2450.4	2633.8	-183.437	183.437
5760921.6		2500.4	2657.9	-157.500	157.500
6108144		2544	2682.1	-138.057	138.057
6428750		2571.5	2706.3	-134.808	134.808
6754276.8		2596.8	2730.7	-133.858	133.858
7039323.2		2603.3	2755.1	-151.807	151.807
7399186.9		2634.1	2779.7	-145.559	145.559
7781054.4		2668.4	2804.3	-135.917	135.917
8226790		2719.6	2829.1	-109.481	109.481
8590758.4		2739.4	2854.0	-114.555	114.555
9098824.5		2800.5	2878.9	-78.442	78.442
164360.4		2833.8	2904.0	-70.243	70.243
169448		2872	2929.3	-57.261	57.261
172770		2879.5	2954.6	-75.098	75.098
10977322.1		2950.1	2980.1	-29.957	29.957
11493175.6		2989.9	3005.6	-15.740	15.740
12108228.3		3050.7	3031.4	19.350	19.350
12794265.6		3123.6	3057.2	66.411	66.411
13524647.5		3201.1	3083.2	117.941	117.941
13996699.2		3213.2	3109.3	103.937	103.937
14515630.4		3233.6	3135.5	98.097	98.097
15082563.2		3261.8	3161.9	99.918	99.918
15672259.8		3291.8	3188.4	103.398	103.398
16119530		3289.7	3215.1	74.635	74.635
16703353.5		3313.5	3241.9	71.626	71.626
17305747.2		3338.3	3268.8	69.470	69.470
18151639.8		3406.2	3295.9	110.262	110.262
18973244.8		3464.8	3323.2	141.602	141.602
19626750		3489.2	3350.6	138.586	138.586
20239681.6		3504.1	3378.2	125.912	125.912
21097160.7		3558.3	3405.9	152.378	152.378
21705278.4		3567.6	3433.8	133.782	133.782
22394580.3		3588.3	3461.9	126.421	126.421
22856960		3571.4	3490.1	81.292	81.292
23399806.5		3566.5	3518.5	47.994	47.994
24030903.6		3573.9	3547.1	26.823	26.823
24836222.8		3605.2	3575.8	29.378	29.378
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27263135.2		3686.2	3663.1	23.072	23.072
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4133.3	3904.2	229.075	229.075
4117	3935.3	181.748	181.748
4151.1	3966.5	184.615	184.615
4119.3	3997.9	121.374	121.374
4130.4	4029.6	100.823	100.823
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4410.5	4392.3	18.175	18.175
4489.8	4426.7	63.110	63.110
4570.6	4461.3	109.303	109.303
4576.1	4496.1	79.952	79.952
4588.9	4531.2	57.654	57.654
4765.7	4566.6	199.108	199.108
4811.7	4602.2	209.510	209.510
4876	4638.0	237.958	237.958
4888.3	4674.1	214.150	214.150
4891.4	4710.5	180.884	180.884
4926.2	4747.1	179.057	179.057
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4997.1	5088.9	-91.826	91.826
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4935.5	5168.0	-232.451	232.451
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5541.3	5538.2	3.120	3.120
5583.1	5580.8	2.258	2.258
5629.7	5623.8	5.883	5.883
5673.8	5667.1	6.692	6.692
5758.6	5710.7	47.883	47.883
5806	5754.6	51.352	51.352
5858.9	5798.9	59.998	59.998
5883.3	5843.5	39.818	39.818
5937.9	5888.4	49.511	49.511
5969.5	5933.6	35.872	35.872
6013.3	5979.2	34.101	34.101
6077.2	6025.1	52.095	52.095
6128.1	6071.3	56.751	56.751
6234.4	6117.9	116.466	116.466
6275.9	6164.9	111.039	111.039
6349.8	6212.1	137.667	137.667
6382.3	6259.8	122.548	122.548
6465.2	6307.7	157.479	157.479
6543.8	6356.0	187.758	187.758
6579.4	6404.7	174.683	174.683
6610.6	6453.7	156.851	156.851
6633.5	6503.1	130.359	130.359
6716.3	6552.9	163.405	163.405
6731.7	6603.0	128.688	128.688
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6664.2	6704.3	-40.149	40.149
6631.4	6755.6	-124.174	124.174
6668.5	6807.2	-138.672	138.672
6684.9	6859.1	-174.246	174.246
6720.9	6911.5	-190.598	190.598
6783.3	6964.2	-180.932	180.932
6846.8	7017.3	-170.549	170.549
6899.7	7070.9	-171.151	171.151
6990.6	7124.7	-134.142	134.142
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7062	7288.8	-226.767	226.767

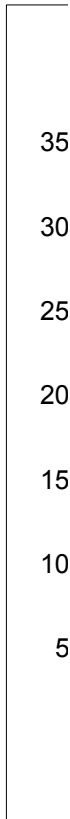
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7168.7	7344.2	-175.534	175.534
7229.4	7400.1	-170.701	170.701
7330.2	7456.4	-126.171	126.171
7370.2	7513.0	-142.846	142.846
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7488.7	7627.6	-138.920	138.920
7503.3	7685.5	-182.223	182.223
7561.4	7743.8	-182.442	182.442
7621.9	7802.6	-180.677	180.677
7676.4	7861.7	-185.332	185.332
7802.9	7921.3	-118.408	118.408
7841.9	7981.3	-139.408	139.408
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8216.6	8225.6	-8.999	8.999
8272.9	8287.8	-14.855	14.855
8396.3	8350.4	45.949	45.949
8442.9	8413.4	29.513	29.513
8528.5	8476.9	51.633	51.633
8667.9	8540.8	127.108	127.108
8733.5	8605.2	128.335	128.335
8771.2	8670.0	101.211	101.211
8871.5	8735.3	136.234	136.234
9049.9	8801.0	248.902	248.902
9102.5	8867.2	235.312	235.312
9229.4	8933.8	295.562	295.562
9260.1	9000.9	259.150	259.150
9303.9	9068.5	235.373	235.373
930779.7	930779.9325	-2.3247E-01 (SE)	21871.139 SAE
		-1.1396E-03 ME	107.211 MAE

THEILovoU 0.01283

rezidua^2	MAPE	MAAPE
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2549.200	0.030	0.031
8524.221	0.054	0.055
10176.535	0.058	0.059
9632.151	0.055	0.057
11239.909	0.059	0.061
14352.316	0.065	0.067
10198.834	0.055	0.056
10016.087	0.054	0.055
6284.071	0.042	0.043
4728.223	0.037	0.037
11804.348	0.056	0.058
14914.997	0.062	0.064
13455.334	0.058	0.060
6553.857	0.041	0.042
723.657	0.014	0.014
26.732	0.003	0.003
608.123	0.013	0.013
679.694	0.013	0.013
92.258	0.005	0.005
631.763	0.012	0.012
1263.570	0.017	0.017
1675.100	0.019	0.020
874.755	0.014	0.014
4.456	0.001	0.001
64.574	0.004	0.004
1095.668	0.016	0.015
428.845	0.010	0.009
971.022	0.014	0.014
3476.433	0.027	0.027
3673.708	0.028	0.027
11323.755	0.049	0.048
35332.622	0.089	0.085
39475.062	0.093	0.089
30260.789	0.080	0.077
21930.954	0.067	0.064
15572.534	0.055	0.053
7859.792	0.038	0.037
12766.730	0.048	0.047
16562.615	0.055	0.054
10055.170	0.042	0.041
18395.848	0.057	0.055
23983.384	0.065	0.063

$y_t^2$	$yv_t^2$
2593710.25	2515174.28
2751617.44	2586662.33
2968729.00	2659095.39
3076165.21	2732479.04
3145302.25	2806819.33
3253333.69	2882122.69
3384864.04	2958396.03
3397754.89	3035646.66
3477106.09	3113882.33
3482702.44	3193111.20
3526884.00	3273341.88
3764376.04	3354583.40
3904576.00	3436845.21
3968860.84	3520137.22
3918420.25	3604469.71
3793924.84	3689853.46
3756231.61	3776299.63
3767481.00	3863819.82
3849444.00	3952426.08
4003600.81	4042130.87
4235775.61	4132947.10
4372281.00	4224888.12
4489737.21	4317967.69
4537326.01	4412200.03
4498641.00	4507599.79
4569761.29	4604182.06
4559506.09	4701962.39
4710636.16	4800956.74
4764179.29	4901181.55
4742377.29	5002653.69
4835161.21	5105390.49
4734976.00	5209409.72
4483382.76	5314729.62
4535622.09	5421368.89
4741506.25	5529346.66
4957302.25	5638682.57
5166529.00	5749396.70
5440089.76	5861509.58
5435425.96	5975042.26
5471388.81	6090016.23
5716881.00	6206453.47
5660592.64	6324376.44
5681548.96	6443808.09



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48171.397	0.093	0.089
39626.622	0.083	0.079
33649.160	0.075	0.072
24806.363	0.063	0.061
19059.629	0.054	0.053
18173.264	0.052	0.051
17917.872	0.052	0.050
23045.437	0.058	0.057
21187.536	0.055	0.054
18473.299	0.051	0.050
11986.092	0.040	0.039
13122.912	0.042	0.041
6153.103	0.028	0.028
4934.041	0.025	0.024
3278.789	0.020	0.020
5639.718	0.026	0.026
897.432	0.010	0.010
247.762	0.005	0.005
374.410	0.006	0.006
4410.403	0.021	0.021
13910.004	0.037	0.038
10802.843	0.032	0.033
9622.945	0.030	0.031
9983.592	0.031	0.031
10691.203	0.031	0.032
5570.422	0.023	0.023
5130.353	0.022	0.022
4826.018	0.021	0.021
12157.718	0.032	0.033
20051.007	0.041	0.042
19206.010	0.040	0.041
15853.873	0.036	0.037
23219.181	0.043	0.044
17897.651	0.037	0.038
15982.228	0.035	0.036
6608.423	0.023	0.023
2303.407	0.013	0.014
719.488	0.008	0.008
863.077	0.008	0.008
1462.595	0.011	0.011
1040.366	0.009	0.009
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479.794	0.006	0.006

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6252000.16	7064434.31
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6777170.89	7590615.89
6938482.81	7726506.32
7120358.56	7864191.12
7396224.16	8003699.37
7504312.36	8145060.74
7842800.25	8288305.42
8030422.44	8433464.17
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10456168.96	9831381.52
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12875896.89	11984607.35
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12772761.21	12581753.28
12997467.04	12786501.73
12719922.25	12994178.48
13440289.21	13204831.67
13588070.44	13418510.21
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34082.819	0.044	0.045
14731.762	0.029	0.030
10165.290	0.024	0.025
531.704	0.006	0.006
993.573	0.008	0.008
13413.914	0.029	0.028
12799.767	0.028	0.028
5726.888	0.018	0.018
3230.934	0.014	0.014
78.610	0.002	0.002
117.594	0.003	0.003
5.809	0.001	0.001
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330.331	0.004	0.004
3982.854	0.014	0.014
11947.133	0.024	0.024
6392.304	0.017	0.018
3324.017	0.013	0.013
39643.895	0.042	0.043
43894.384	0.044	0.045
56624.126	0.049	0.050
45860.428	0.044	0.045
32719.085	0.037	0.038
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25143.288	0.032	0.033
18964.053	0.028	0.028
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48.403	0.001	0.001
8432.096	0.018	0.018
45793.885	0.044	0.043
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87495.676	0.060	0.058

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16080100.00	17022377.92
16363643.04	17291758.76
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24590689.21	23243872.71
23598220.84	23606134.15
23525410.09	23973845.96
24370019.56	24347093.02
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25571226.24	25500912.02
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24150344.49	26299410.20
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100024.710	0.064	0.062
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15688.828	0.024	0.023
2651.171	0.010	0.009
4.123	0.000	0.000
9.732	0.001	0.001
5.100	0.000	0.000
34.613	0.001	0.001
44.786	0.001	0.001
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2637.027	0.009	0.009
3599.772	0.010	0.010
1585.511	0.007	0.007
2451.313	0.008	0.008
1286.834	0.006	0.006
1162.896	0.006	0.006
2713.863	0.009	0.009
3220.620	0.009	0.009
13564.363	0.019	0.019
12329.717	0.018	0.018
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30514.152	0.027	0.027
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16993.433	0.020	0.020
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16560.563	0.019	0.019
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29292.823	0.025	0.025
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36222.999	0.027	0.027
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51423.272	0.032	0.032

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41798811.04	39787338.32
42821318.44	40399263.61
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43700032.36	41650881.40
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45108685.69	42940427.43
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46013158.89	48500526.90
46878670.24	49243184.99
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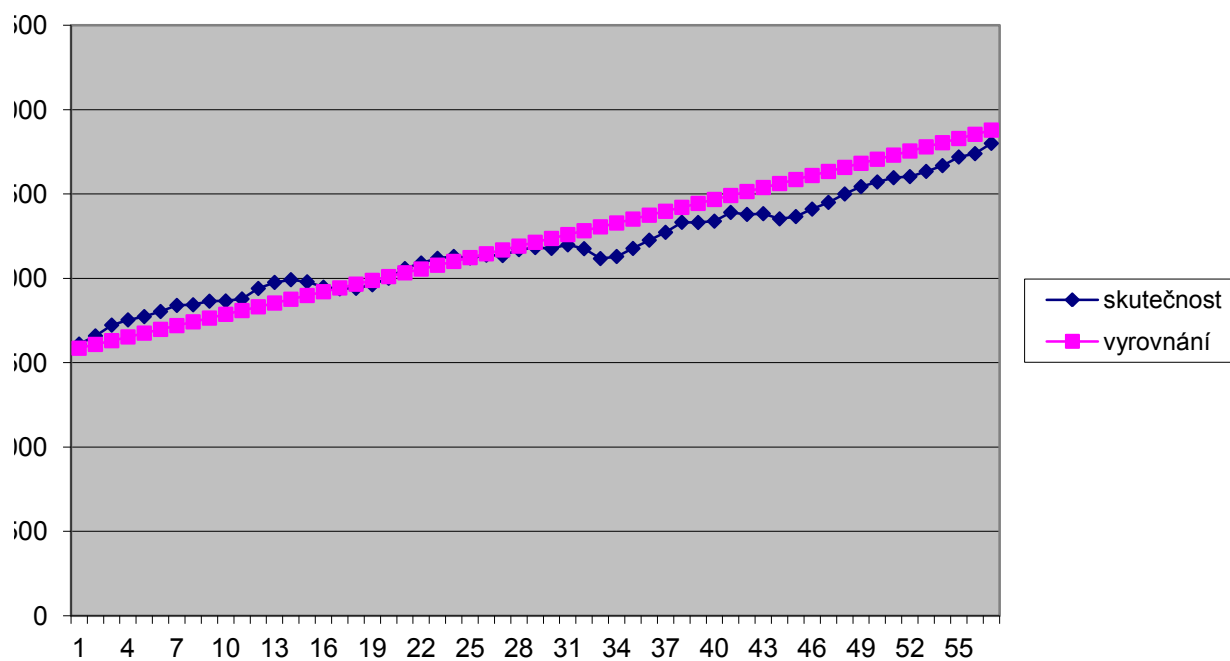
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19298.661	0.019	0.018
33205.381	0.024	0.024
33284.997	0.024	0.024
32644.176	0.024	0.023
34347.776	0.024	0.024
14020.401	0.015	0.015
19434.625	0.018	0.018
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7428.842	0.011	0.011
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61952.206	0.028	0.028
55371.846	0.026	0.026
87357.111	0.032	0.033
67158.723	0.028	0.028
55400.327	0.025	0.026
<b>3394514.926</b>	<b>5.600716</b>	<b>5.58095</b>
<b>SSE</b>		
<b>16639.779</b>	<b>2.745</b>	<b>2.736</b>
<b>MSE</b>	<b>MAPE</b>	<b>AMAPE</b>
<b>128.995</b>		
<b>RMSE</b>		

51390259.69	53937775.44
52264224.36	54761501.26
53731832.04	55597471.75
54319848.04	56445858.86
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56299510.89	59067270.52
57174769.96	59967085.24
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58927116.96	61806822.67
60885248.41	62747116.85
61495395.61	63701279.35
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76274022.25	74048869.57
76933949.44	75168711.98
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82855506.25	78627018.93
85181824.36	79813454.90
85749452.01	81017100.90
86562555.21	82238186.67
<b>5153991741</b>	<b>5150598752</b>



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### vyrovnání kubickým trendem













čtvrtletí	pořadí	GDPUSA= $y_t$	$t^2$	$t^3$	$t^4$	$t^*y_t$
1950Q1	1	1610.5	1	1	1	1610.5
1950Q2	2	1658.8	4	8	16	3317.6
1950Q3	3	1723	9	27	81	5169
1950Q4	4	1753.9	16	64	256	7015.6
1951Q1	5	1773.5	25	125	625	8867.5
1951Q2	6	1803.7	36	216	1296	10822.2
1951Q3	7	1839.8	49	343	2401	12878.6
1951Q4	8	1843.3	64	512	4096	14746.4
1952Q1	9	1864.7	81	729	6561	16782.3
1952Q2	10	1866.2	100	1000	10000	18662
1952Q3	11	1878	121	1331	14641	20658
1952Q4	12	1940.2	144	1728	20736	23282.4
1953Q1	13	1976	169	2197	28561	25688
1953Q2	14	1992.2	196	2744	38416	27890.8
1953Q3	15	1979.5	225	3375	50625	29692.5
1953Q4	16	1947.8	256	4096	65536	31164.8
1954Q1	17	1938.1	289	4913	83521	32947.7
1954Q2	18	1941	324	5832	104976	34938
1954Q3	19	1962	361	6859	130321	37278
1954Q4	20	2000.9	400	8000	160000	40018
1955Q1	21	2058.1	441	9261	194481	43220.1
1955Q2	22	2091	484	10648	234256	46002
1955Q3	23	2118.9	529	12167	279841	48734.7
1955Q4	24	2130.1	576	13824	331776	51122.4
1956Q1	25	2121	625	15625	390625	53025
1956Q2	26	2137.7	676	17576	456976	55580.2
1956Q3	27	2135.3	729	19683	531441	57653.1
1956Q4	28	2170.4	784	21952	614656	60771.2
1957Q1	29	2182.7	841	24389	707281	63298.3
1957Q2	30	2177.7	900	27000	810000	65331
1957Q3	31	2198.9	961	29791	923521	68165.9
1957Q4	32	2176	1024	32768	1048576	69632
1958Q1	33	2117.4	1089	35937	1185921	69874.2
1958Q2	34	2129.7	1156	39304	1336336	72409.8
1958Q3	35	2177.5	1225	42875	1500625	76212.5
1958Q4	36	2226.5	1296	46656	1679616	80154
1959Q1	37	2273	1369	50653	1874161	84101
1959Q2	38	2332.4	1444	54872	2085136	88631.2
1959Q3	39	2331.4	1521	59319	2313441	90924.6
1959Q4	40	2339.1	1600	64000	2560000	93564
1960Q1	41	2391	1681	68921	2825761	98031
1960Q2	42	2379.2	1764	74088	3111696	99926.4
1960Q3	43	2383.6	1849	79507	3418801	102494.8
1960Q4	44	2352.9	1936	85184	3748096	103527.6

1961Q1	45	2366.5	2025	91125	4100625	106492.5
1961Q2	46	2410.8	2116	97336	4477456	110896.8
1961Q3	47	2450.4	2209	103823	4879681	115168.8
1961Q4	48	2500.4	2304	110592	5308416	120019.2
1962Q1	49	2544	2401	117649	5764801	124656
1962Q2	50	2571.5	2500	125000	6250000	128575
1962Q3	51	2596.8	2601	132651	6765201	132436.8
1962Q4	52	2603.3	2704	140608	7311616	135371.6
1963Q1	53	2634.1	2809	148877	7890481	139607.3
1963Q2	54	2668.4	2916	157464	8503056	144093.6
1963Q3	55	2719.6	3025	166375	9150625	149578
1963Q4	56	2739.4	3136	175616	9834496	153406.4
1964Q1	57	2800.5	3249	185193	10556001	159628.5
1964Q2	58	2833.8	3364	195112	11316496	164360.4
1964Q3	59	2872	3481	205379	12117361	169448
1964Q4	60	2879.5	3600	216000	12960000	172770
1965Q1	61	2950.1	3721	226981	13845841	179956.1
1965Q2	62	2989.9	3844	238328	14776336	185373.8
1965Q3	63	3050.7	3969	250047	15752961	192194.1
1965Q4	64	3123.6	4096	262144	16777216	199910.4
1966Q1	65	3201.1	4225	274625	17850625	208071.5
1966Q2	66	3213.2	4356	287496	18974736	212071.2
1966Q3	67	3233.6	4489	300763	20151121	216651.2
1966Q4	68	3261.8	4624	314432	21381376	221802.4
1967Q1	69	3291.8	4761	328509	22667121	227134.2
1967Q2	70	3289.7	4900	343000	24010000	230279
1967Q3	71	3313.5	5041	357911	25411681	235258.5
1967Q4	72	3338.3	5184	373248	26873856	240357.6
1968Q1	73	3406.2	5329	389017	28398241	248652.6
1968Q2	74	3464.8	5476	405224	29986576	256395.2
1968Q3	75	3489.2	5625	421875	31640625	261690
1968Q4	76	3504.1	5776	438976	33362176	266311.6
1969Q1	77	3558.3	5929	456533	35153041	273989.1
1969Q2	78	3567.6	6084	474552	37015056	278272.8
1969Q3	79	3588.3	6241	493039	38950081	283475.7
1969Q4	80	3571.4	6400	512000	40960000	285712
1970Q1	81	3566.5	6561	531441	43046721	288886.5
1970Q2	82	3573.9	6724	551368	45212176	293059.8
1970Q3	83	3605.2	6889	571787	47458321	299231.6
1970Q4	84	3566.5	7056	592704	49787136	299586
1971Q1	85	3666.1	7225	614125	52200625	311618.5
1971Q2	86	3686.2	7396	636056	54700816	317013.2
1971Q3	87	3714.5	7569	658503	57289761	323161.5
1971Q4	88	3723.8	7744	681472	59969536	327694.4
1972Q1	89	3796.9	7921	704969	62742241	337924.1



1972Q2	90	3883.8	8100	729000	65610000	349542
1972Q3	91	3922.3	8281	753571	68574961	356929.3
1972Q4	92	3990.5	8464	778688	71639296	367126
1973Q1	93	4092.3	8649	804357	74805201	380583.9
1973Q2	94	4133.3	8836	830584	78074896	388530.2
1973Q3	95	4117	9025	857375	81450625	391115
1973Q4	96	4151.1	9216	884736	84934656	398505.6
1974Q1	97	4119.3	9409	912673	88529281	399572.1
1974Q2	98	4130.4	9604	941192	92236816	404779.2
1974Q3	99	4084.5	9801	970299	96059601	404365.5
1974Q4	100	4062	10000	1000000	100000000	406200
1975Q1	101	4010	10201	1030301	104060401	405010
1975Q2	102	4045.2	10404	1061208	108243216	412610.4
1975Q3	103	4115.4	10609	1092727	112550881	423886.2
1975Q4	104	4167.2	10816	1124864	116985856	433388.8
1976Q1	105	4266.1	11025	1157625	121550625	447940.5
1976Q2	106	4301.5	11236	1191016	126247696	455959
1976Q3	107	4321.9	11449	1225043	131079601	462443.3
1976Q4	108	4357.4	11664	1259712	136048896	470599.2
1977Q1	109	4410.5	11881	1295029	141158161	480744.5
1977Q2	110	4489.8	12100	1331000	146410000	493878
1977Q3	111	4570.6	12321	1367631	151807041	507336.6
1977Q4	112	4576.1	12544	1404928	157351936	512523.2
1978Q1	113	4588.9	12769	1442897	163047361	518545.7
1978Q2	114	4765.7	12996	1481544	168896016	543289.8
1978Q3	115	4811.7	13225	1520875	174900625	553345.5
1978Q4	116	4876	13456	1560896	181063936	565616
1979Q1	117	4888.3	13689	1601613	187388721	571931.1
1979Q2	118	4891.4	13924	1643032	193877776	577185.2
1979Q3	119	4926.2	14161	1685159	200533921	586217.8
1979Q4	120	4942.6	14400	1728000	207360000	593112
1980Q1	121	4958.9	14641	1771561	214358881	600026.9
1980Q2	122	4857.8	14884	1815848	221533456	592651.6
1980Q3	123	4850.3	15129	1860867	228886641	596586.9
1980Q4	124	4936.6	15376	1906624	236421376	612138.4
1981Q1	125	5032.5	15625	1953125	244140625	629062.5
1981Q2	126	4997.3	15876	2000376	252047376	629659.8
1981Q3	127	5056.8	16129	2048383	260144641	642213.6
1981Q4	128	4997.1	16384	2097152	268435456	639628.8
1982Q1	129	4914.3	16641	2146689	276922881	633944.7
1982Q2	130	4935.5	16900	2197000	285610000	641615
1982Q3	131	4912.1	17161	2248091	294499921	643485.1
1982Q4	132	4915.6	17424	2299968	303595776	648859.2
1983Q1	133	4972.4	17689	2352637	312900721	661329.2
1983Q2	134	5089.8	17956	2406104	322417936	682033.2

1983Q3	135	5180.4	18225	2460375	332150625	699354
1983Q4	136	5286.8	18496	2515456	342102016	719004.8
1984Q1	137	5402.3	18769	2571353	352275361	740115.1
1984Q2	138	5493.8	19044	2628072	362673936	758144.4
1984Q3	139	5541.3	19321	2685619	373301041	770240.7
1984Q4	140	5583.1	19600	2744000	384160000	781634
1985Q1	141	5629.7	19881	2803221	395254161	793787.7
1985Q2	142	5673.8	20164	2863288	406586896	805679.6
1985Q3	143	5758.6	20449	2924207	418161601	823479.8
1985Q4	144	5806	20736	2985984	429981696	836064
1986Q1	145	5858.9	21025	3048625	442050625	849540.5
1986Q2	146	5883.3	21316	3112136	454371856	858961.8
1986Q3	147	5937.9	21609	3176523	466948881	872871.3
1986Q4	148	5969.5	21904	3241792	479785216	883486
1987Q1	149	6013.3	22201	3307949	492884401	895981.7
1987Q2	150	6077.2	22500	3375000	506250000	911580
1987Q3	151	6128.1	22801	3442951	519885601	925343.1
1987Q4	152	6234.4	23104	3511808	533794816	947628.8
1988Q1	153	6275.9	23409	3581577	547981281	960212.7
1988Q2	154	6349.8	23716	3652264	562448656	977869.2
1988Q3	155	6382.3	24025	3723875	577200625	989256.5
1988Q4	156	6465.2	24336	3796416	592240896	1008571.2
1989Q1	157	6543.8	24649	3869893	607573201	1027376.6
1989Q2	158	6579.4	24964	3944312	623201296	1039545.2
1989Q3	159	6610.6	25281	4019679	639128961	1051085.4
1989Q4	160	6633.5	25600	4096000	655360000	1061360
1990Q1	161	6716.3	25921	4173281	671898241	1081324.3
1990Q2	162	6731.7	26244	4251528	688747536	1090535.4
1990Q3	163	6719.4	26569	4330747	705911761	1095262.2
1990Q4	164	6664.2	26896	4410944	723394816	1092928.8
1991Q1	165	6631.4	27225	4492125	741200625	1094181
1991Q2	166	6668.5	27556	4574296	759333136	1106971
1991Q3	167	6684.9	27889	4657463	777796321	1116378.3
1991Q4	168	6720.9	28224	4741632	796594176	1129111.2
1992Q1	169	6783.3	28561	4826809	815730721	1146377.7
1992Q2	170	6846.8	28900	4913000	835210000	1163956
1992Q3	171	6899.7	29241	5000211	855036081	1179848.7
1992Q4	172	6990.6	29584	5088448	875213056	1202383.2
1993Q1	173	6988.7	29929	5177717	895745041	1209045.1
1993Q2	174	7031.2	30276	5268024	916636176	1223428.8
1993Q3	175	7062	30625	5359375	937890625	1235850
1993Q4	176	7168.7	30976	5451776	959512576	1261691.2
1994Q1	177	7229.4	31329	5545233	981506241	1279603.8
1994Q2	178	7330.2	31684	5639752	1003875856	1304775.6
1994Q3	179	7370.2	32041	5735339	1026625681	1319265.8

1994Q4	180	7461.1	32400	5832000	1049760000	1342998
1995Q1	181	7488.7	32761	5929741	1073283121	1355454.7
1995Q2	182	7503.3	33124	6028568	1097199376	1365600.6
1995Q3	183	7561.4	33489	6128487	1121513121	1383736.2
1995Q4	184	7621.9	33856	6229504	1146228736	1402429.6
1996Q1	185	7676.4	34225	6331625	1171350625	1420134
1996Q2	186	7802.9	34596	6434856	1196883216	1451339.4
1996Q3	187	7841.9	34969	6539203	1222830961	1466435.3
1996Q4	188	7931.3	35344	6644672	1249198336	1491084.4
1997Q1	189	8016.4	35721	6751269	1275989841	1515099.6
1997Q2	190	8131.9	36100	6859000	1303210000	1545061
1997Q3	191	8216.6	36481	6967871	1330863361	1569370.6
1997Q4	192	8272.9	36864	7077888	1358954496	1588396.8
1998Q1	193	8396.3	37249	7189057	1387488001	1620485.9
1998Q2	194	8442.9	37636	7301384	1416468496	1637922.6
1998Q3	195	8528.5	38025	7414875	1445900625	1663057.5
1998Q4	196	8667.9	38416	7529536	1475789056	1698908.4
1999Q1	197	8733.5	38809	7645373	1506138481	1720499.5
1999Q2	198	8771.2	39204	7762392	1536953616	1736697.6
1999Q3	199	8871.5	39601	7880599	1568239201	1765428.5
1999Q4	200	9049.9	40000	8000000	1600000000	1809980
2000Q1	201	9102.5	40401	8120601	1632240801	1829602.5
2000Q2	202	9229.4	40804	8242408	1664966416	1864338.8
2000Q3	203	9260.1	41209	8365427	1698181681	1879800.3
2000Q4	204	9303.9	41616	8489664	1731891456	1897995.6
sumace	20910	930779.7	2850730	437228100	7.153E+10	120333057

b0	1786.94	spočteno GRETlem
b1	1.08344	spočteno GRETlem
b2	0.454395	spočteno GRETlem
b3	-0.00312652	spočteno GRETlem
b4	8.60E-06	spočteno GRETlem

$t^2 \cdot y_t$	skutečnost	vyrovnání	rezidua	abs.rezidua	rezidua <sup>2</sup>
1610.5	1610.5	1788.5	-178.0	177.975	31675.000
6635.2	1658.8	1790.9	-132.1	132.100	17450.300
15507	1723	1794.2	-71.2	71.196	5068.893
28062.4	1753.9	1798.3	-44.4	44.446	1975.463
44337.5	1773.5	1803.3	-29.8	29.832	889.926
64933.2	1803.7	1809.1	-5.4	5.435	29.536
90150.2	1839.8	1815.7	24.1	24.062	578.995
117971.2	1843.3	1823.1	20.2	20.177	407.101
151040.7	1864.7	1831.3	33.4	33.426	1117.287
186620	1866.2	1840.2	26.0	26.027	677.384
227238	1878	1849.8	28.2	28.196	795.005
279388.8	1940.2	1860.1	80.1	80.050	6408.021
333944	1976	1871.2	104.8	104.806	10984.263
390471.2	1992.2	1882.9	109.3	109.279	11941.938
445387.5	1979.5	1895.3	84.2	84.186	7087.300
498636.8	1947.8	1908.4	39.4	39.442	1555.702
560110.9	1938.1	1922.0	16.1	16.064	258.039
628884	1941	1936.3	4.7	4.665	21.763
708282	1962	1951.2	10.8	10.762	115.820
800360	2000.9	1966.7	34.2	34.169	1167.534
907622.1	2058.1	1982.8	75.3	75.302	5670.321
1012044	2091	1999.4	91.6	91.573	8385.704
1120898.1	2118.9	2016.6	102.3	102.299	10465.163
1226937.6	2130.1	2034.3	95.8	95.793	9176.362
1325625	2121	2052.5	68.5	68.469	4688.036
1445085.2	2137.7	2071.3	66.4	66.441	4414.381
1556633.7	2135.3	2090.5	44.8	44.822	2008.970
1701593.6	2170.4	2110.2	60.2	60.225	3627.016
1835650.7	2182.7	2130.3	52.4	52.363	2741.927
1959930	2177.7	2150.9	26.8	26.751	715.591
2113142.9	2198.9	2172.0	26.9	26.899	723.541
2228224	2176	2193.5	-17.5	17.480	305.535
2305848.6	2117.4	2215.4	-98.0	97.972	9598.519
2461933.2	2129.7	2237.7	-108.0	107.967	11656.801
2667437.5	2177.5	2260.4	-82.9	82.852	6864.389
2885544	2226.5	2283.4	-56.9	56.915	3239.342
3111737	2273	2306.8	-33.8	33.846	1145.557
3367985.6	2332.4	2330.6	1.8	1.767	3.122
3546059.4	2331.4	2354.8	-23.4	23.365	545.915
3742560	2339.1	2379.2	-40.1	40.131	1610.488
4019271	2391	2404.0	-13.0	13.021	169.534
4196908.8	2379.2	2429.1	-49.9	49.923	2492.340
4407276.4	2383.6	2454.5	-70.9	70.929	5030.945
4555214.4	2352.9	2480.2	-127.3	127.328	16212.413

4792162.5		2366.5	2506.2	-139.7	139.710	19518.888
5101252.8		2410.8	2532.5	-121.7	121.666	14802.545
5412933.6		2450.4	2559.0	-108.6	108.586	11790.851
5760921.6		2500.4	2585.8	-85.4	85.361	7286.464
6108144		2544	2612.8	-68.8	68.782	4730.971
6428750		2571.5	2640.0	-68.5	68.541	4697.834
6754276.8		2596.8	2667.5	-70.7	70.728	5002.496
7039323.2		2603.3	2695.2	-91.9	91.936	8452.310
7399186.9		2634.1	2723.2	-89.1	89.057	7931.146
7781054.4		2668.4	2751.3	-82.9	82.882	6869.429
8226790		2719.6	2779.6	-60.0	60.004	3600.460
8590758.4		2739.4	2808.1	-68.7	68.715	4721.741
9098824.5		2800.5	2836.8	-36.3	36.308	1318.270
9532903.2		2833.8	2865.7	-31.9	31.876	1016.074
9997432		2872	2894.7	-22.7	22.712	515.827
10366200		2879.5	2923.9	-44.4	44.409	1972.163
10977322.1		2950.1	2953.3	-3.2	3.161	9.992
11493175.6		2989.9	2982.8	7.1	7.138	50.956
12108228.3		3050.7	3012.4	38.3	38.295	1466.526
12794265.6		3123.6	3042.2	81.4	81.416	6628.491
13524647.5		3201.1	3072.1	129.0	129.005	16642.252
13996699.2		3213.2	3102.1	111.1	111.069	12336.240
14515630.4		3233.6	3132.3	101.3	101.312	10264.143
15082563.2		3261.8	3162.6	99.2	99.240	9848.641
15672259.8		3291.8	3192.9	98.9	98.858	9772.923
16119530		3289.7	3223.4	66.3	66.270	4391.720
16703353.5		3313.5	3254.0	59.5	59.481	3537.941
17305747.2		3338.3	3284.7	53.6	53.594	2872.311
18151639.8		3406.2	3315.5	90.7	90.714	8229.045
18973244.8		3464.8	3346.4	118.4	118.445	14029.175
19626750		3489.2	3377.3	111.9	111.890	12519.313
20239681.6		3504.1	3408.3	95.8	95.752	9168.485
21097160.7		3558.3	3439.5	118.8	118.835	14121.856
21705278.4		3567.6	3470.7	96.9	96.942	9397.814
22394580.3		3588.3	3501.9	86.4	86.376	7460.760
22856960		3571.4	3533.3	38.1	38.138	1454.513
23399806.5		3566.5	3564.7	1.8	1.832	3.356
24030903.6		3573.9	3596.1	-22.2	22.241	494.658
24836222.8		3605.2	3627.7	-22.5	22.478	505.270
25165224		3566.5	3659.3	-92.8	92.778	8607.818
26487572.5		3666.1	3690.9	-24.8	24.840	617.013
27263135.2		3686.2	3722.7	-36.5	36.461	1329.417
28115050.5		3714.5	3754.4	-39.9	39.941	1595.321
28837107.2		3723.8	3786.3	-62.5	62.480	3903.718
30075244.9		3796.9	3818.2	-21.3	21.275	452.638

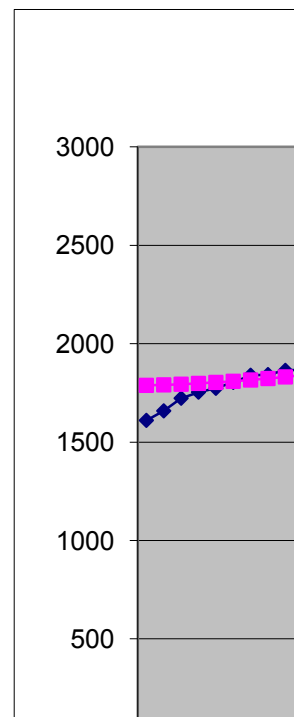
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33775592	3990.5	3914.2	76.3	76.298	5821.425
35394302.7	4092.3	3946.3	146.0	145.976	21309.121
36521838.8	4133.3	3978.5	154.8	154.798	23962.336
37155925	4117	4010.7	106.3	106.262	11291.524
38256537.6	4151.1	4043.0	108.1	108.067	11678.533
38758493.7	4119.3	4075.4	43.9	43.914	1928.422
39668361.6	4130.4	4107.8	22.6	22.600	510.763
40032184.5	4084.5	4140.3	-55.8	55.775	3110.890
40620000	4062	4172.8	-110.8	110.814	12279.743
40906010	4010	4205.4	-195.4	195.418	38188.062
42086260.8	4045.2	4238.1	-192.9	192.888	37205.906
43660278.6	4115.4	4270.8	-155.4	155.428	24157.920
45072435.2	4167.2	4303.6	-136.4	136.440	18615.774
47033752.5	4266.1	4336.5	-70.4	70.425	4959.721
48331654	4301.5	4369.5	-68.0	67.988	4622.361
49481433.1	4321.9	4402.5	-80.6	80.631	6501.301
50824713.6	4357.4	4435.7	-78.3	78.257	6124.094
52401150.5	4410.5	4468.9	-58.4	58.369	3406.967
54326580	4489.8	4502.2	-12.4	12.372	153.071
56314362.6	4570.6	4535.6	35.0	35.031	1227.149
57402598.4	4576.1	4569.1	7.0	7.035	49.496
58595664.1	4588.9	4602.7	-13.8	13.762	189.406
61935037.2	4765.7	4636.4	129.3	129.333	16726.956
63634732.5	4811.7	4670.2	141.5	141.516	20026.879
65611456	4876	4704.1	171.9	171.883	29543.934
66915938.7	4888.3	4738.2	150.1	150.129	22538.732
68107853.6	4891.4	4772.4	119.0	119.048	14172.369
69759918.2	4926.2	4806.7	119.5	119.534	14288.403
71173440	4942.6	4841.1	101.5	101.482	10298.678
72603254.9	4958.9	4875.7	83.2	83.187	6920.032
72303495.2	4857.8	4910.5	-52.7	52.659	2772.973
73380188.7	4850.3	4945.4	-95.1	95.061	9036.628
75905161.6	4936.6	4980.4	-43.8	43.826	1920.742
78632812.5	5032.5	5015.7	16.8	16.839	283.551
79337134.8	4997.3	5051.1	-53.8	53.772	2891.468
81561127.2	5056.8	5086.7	-29.9	29.867	892.066
81872486.4	4997.1	5122.5	-125.4	125.354	15713.547
81778866.3	4914.3	5158.4	-244.1	244.139	59603.638
83409950	4935.5	5194.6	-259.1	259.130	67148.290
84296548.1	4912.1	5231.0	-318.9	318.936	101719.906
85649414.4	4915.6	5267.7	-352.1	352.064	123948.974
87956783.6	4972.4	5304.5	-332.1	332.123	110305.782
91392448.8	5089.8	5341.6	-251.8	251.822	63414.304

94412790	5180.4	5379.0	-198.6	198.569	39429.710
97784652.8	5286.8	5416.6	-129.8	129.774	16841.215
101395768.7	5402.3	5454.4	-52.1	52.145	2719.084
104623927.2	5493.8	5492.6	1.2	1.208	1.459
107063457.3	5541.3	5531.0	10.3	10.275	105.582
109428760	5583.1	5569.8	13.3	13.347	178.146
111924065.7	5629.7	5608.8	20.9	20.913	437.372
114406503.2	5673.8	5648.1	25.7	25.664	658.643
117757611.4	5758.6	5687.8	70.8	70.788	5011.007
120393216	5806	5727.8	78.2	78.176	6111.495
123183372.5	5858.9	5768.2	90.7	90.716	8229.381
125408422.8	5883.3	5808.9	74.4	74.397	5534.922
128312081.1	5937.9	5850.0	87.9	87.908	7727.839
130755928	5969.5	5891.5	78.0	78.038	6089.880
133501273.3	6013.3	5933.3	80.0	79.974	6395.844
136737000	6077.2	5975.6	101.6	101.605	10323.627
139726808.1	6128.1	6018.3	109.8	109.819	12060.272
144039577.6	6234.4	6061.4	173.0	173.004	29930.306
146912543.1	6275.9	6105.0	170.9	170.946	29222.620
150591856.8	6349.8	6149.0	200.8	200.834	40334.284
153334757.5	6382.3	6193.4	188.9	188.854	35665.839
157337107.2	6465.2	6238.4	226.8	226.793	51435.176
161298126.2	6543.8	6283.9	259.9	259.938	67567.933
164248141.6	6579.4	6329.8	249.6	249.576	62288.034
167122578.6	6610.6	6376.3	234.3	234.292	54892.572
169817600	6633.5	6423.3	210.2	210.172	44172.337
174093212.3	6716.3	6470.9	245.4	245.403	60222.685
176666734.8	6731.7	6519.0	212.7	212.670	45228.574
178527738.6	6719.4	6567.7	151.7	151.659	23000.325
179240323.2	6664.2	6617.0	47.2	47.154	2223.475
180539865	6631.4	6667.0	-35.6	35.559	1264.471
183757186	6668.5	6717.5	-49.0	48.996	2400.611
186435176.1	6684.9	6768.7	-83.8	83.772	7017.676
189690681.6	6720.9	6820.5	-99.6	99.602	9920.484
193737831.3	6783.3	6873.0	-89.7	89.702	8046.451
197872520	6846.8	6926.2	-79.4	79.389	6302.574
201754127.7	6899.7	6980.1	-80.4	80.378	6460.634
206809910.4	6990.6	7034.7	-44.1	44.086	1943.612
209164802.3	6988.7	7090.0	-101.3	101.330	10267.854
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216273750	7062	7203.0	-141.0	140.993	19879.030
222057651.2	7168.7	7260.6	-91.9	91.946	8454.053
226489872.6	7229.4	7319.1	-89.7	89.703	8046.652
232250056.8	7330.2	7378.4	-48.2	48.182	2321.535
236148578.2	7370.2	7438.5	-68.3	68.301	4665.074

241739640	7461.1	7499.5	-38.4	38.378	1472.895
245337300.7	7488.7	7561.3	-72.6	72.632	5275.339
248539309.2	7503.3	7624.1	-120.8	120.779	14587.680
253223724.6	7561.4	7687.7	-126.3	126.341	15962.011
258047046.4	7621.9	7752.3	-130.4	130.435	17013.183
262724790	7676.4	7817.9	-141.5	141.480	20016.535
269949128.4	7802.9	7884.4	-81.5	81.496	6641.569
274223401.1	7841.9	7951.9	-110.0	110.002	12100.477
280323867.2	7931.3	8020.4	-89.1	89.119	7942.122
286353824.4	8016.4	8090.0	-73.6	73.565	5411.813
293561590	8131.9	8160.6	-28.7	28.662	821.489
299749784.6	8216.6	8232.2	-15.6	15.629	244.258
304972185.6	8272.9	8305.0	-32.1	32.087	1029.575
312753778.7	8396.3	8378.9	17.4	17.443	304.255
317756984.4	8442.9	8453.9	-11.0	10.960	120.122
324296212.5	8528.5	8530.0	-1.5	1.517	2.301
332986046.4	8667.9	8607.3	60.6	60.551	3666.383
338938401.5	8733.5	8685.9	47.6	47.621	2267.786
343866124.8	8771.2	8765.6	5.6	5.573	31.059
351320271.5	8871.5	8846.6	24.9	24.884	619.217
361996000	9049.9	8928.9	121.0	121.032	14648.745
367750102.5	9102.5	9012.4	90.1	90.094	8117.014
376596437.6	9229.4	9097.3	132.1	132.149	17463.320
381599460.9	9260.1	9183.4	76.7	76.672	5878.643
387191102.4	9303.9	9271.0	32.9	32.942	1085.162
18336699229	930779.7	930774.6238	5.0762E+00 (SE)	17519.866 SAE	2368807.23 SSE
			2.4883E-02 ME	85.882 MAE	11611.800 MSE
	THEILovoU	0.01072			107.758 RMSE

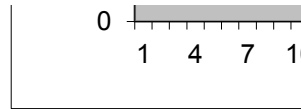


MAPE	AMAPE	$y_t^2$	$yv_t^2$
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0.080	0.077	2751617.44	3207321.33
0.041	0.040	2968729.00	3219139.84
0.025	0.025	3076165.21	3234049.00
0.017	0.017	3145302.25	3252004.99
0.003	0.003	3253333.69	3272968.29
0.013	0.013	3384864.04	3296903.36
0.011	0.011	3397754.89	3323778.39
0.018	0.018	3477106.09	3353565.02
0.014	0.014	3482702.44	3386238.11
0.015	0.015	3526884.00	3421775.45
0.041	0.042	3764376.04	3460157.59
0.053	0.054	3904576.00	3501367.60
0.055	0.056	3968860.84	3545390.83
0.043	0.043	3918420.25	3592214.76
0.020	0.020	3793924.84	3641828.76
0.008	0.008	3756231.61	3694223.95
0.002	0.002	3767481.00	3749392.98
0.005	0.006	3849444.00	3807329.91
0.017	0.017	4003600.81	3868030.04
0.037	0.037	4235775.61	3931489.75
0.044	0.045	4372281.00	3997706.37
0.048	0.049	4489737.21	4066678.05
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0.032	0.033	4498641.00	4212882.54
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0.015	0.015	5166529.00	5321538.82
0.001	0.001	5440089.76	5431849.94
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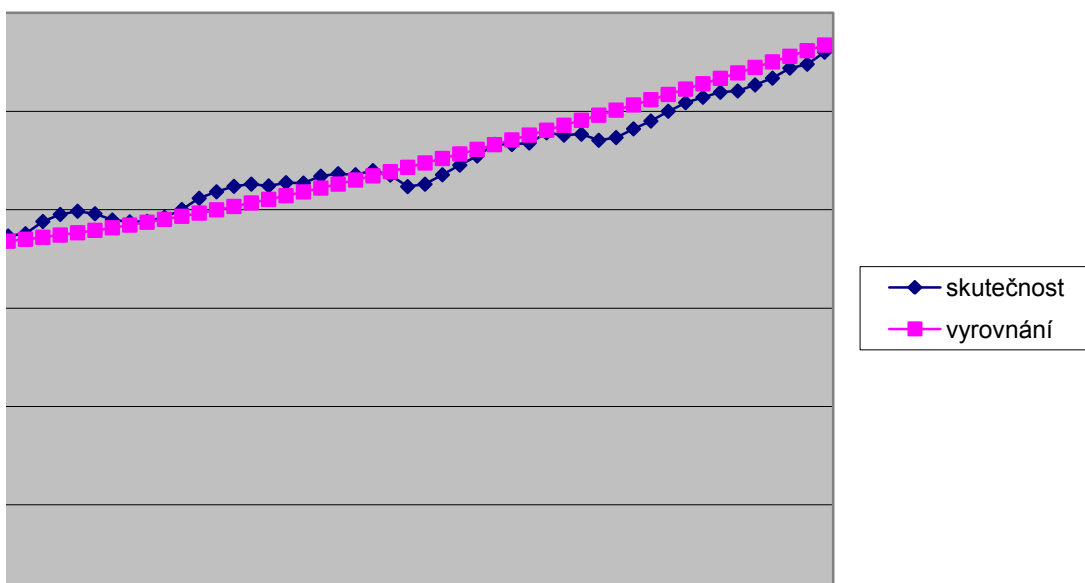
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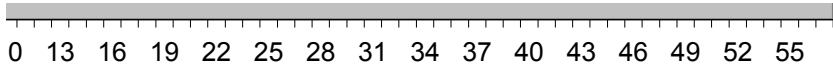
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<b>MAPE</b>	<b>AMAPE</b>

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70497853.69	70205245.97
71282560.41	71467749.08
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### vyrovnání bikvadratickým trendem





čtvrtletí	pořadí	$y_t = \text{GDPUSA}$	$\ln t$	$\ln^2 t$	$\ln t \cdot y_t$	skutečnost
1950Q1	1	1610.5	0.0000000	0.0000000	0	1610.5
1950Q2	2	1658.8	0.6931472	0.4804530	1149.793	1658.8
1950Q3	3	1723	1.0986123	1.2069490	1892.909	1723
1950Q4	4	1753.9	1.3862944	1.9218121	2431.422	1753.9
1951Q1	5	1773.5	1.6094379	2.5902904	2854.338	1773.5
1951Q2	6	1803.7	1.7917595	3.2104020	3231.797	1803.7
1951Q3	7	1839.8	1.9459101	3.7865663	3580.085	1839.8
1951Q4	8	1843.3	2.0794415	4.3240771	3833.035	1843.3
1952Q1	9	1864.7	2.1972246	4.8277958	4097.165	1864.7
1952Q2	10	1866.2	2.3025851	5.3018981	4297.084	1866.2
1952Q3	11	1878	2.3978953	5.7499017	4503.247	1878
1952Q4	12	1940.2	2.4849066	6.1747611	4821.216	1940.2
1953Q1	13	1976	2.5649494	6.5789652	5068.34	1976
1953Q2	14	1992.2	2.6390573	6.9646236	5257.53	1992.2
1953Q3	15	1979.5	2.7080502	7.3335359	5360.585	1979.5
1953Q4	16	1947.8	2.7725887	7.6872482	5400.448	1947.8
1954Q1	17	1938.1	2.8332133	8.0270979	5491.051	1938.1
1954Q2	18	1941	2.8903718	8.3542489	5610.212	1941
1954Q3	19	1962	2.9444390	8.6697209	5776.989	1962
1954Q4	20	2000.9	2.9957323	8.9744119	5994.161	2000.9
1955Q1	21	2058.1	3.0445224	9.2691169	6265.932	2058.1
1955Q2	22	2091	3.0910425	9.5545434	6463.37	2091
1955Q3	23	2118.9	3.1354942	9.8313240	6643.799	2118.9
1955Q4	24	2130.1	3.1780538	10.1000261	6769.572	2130.1
1956Q1	25	2121	3.2188758	10.3611616	6827.236	2121
1956Q2	26	2137.7	3.2580965	10.6151931	6964.833	2137.7
1956Q3	27	2135.3	3.2958369	10.8625406	7037.6	2135.3
1956Q4	28	2170.4	3.3322045	11.1035869	7232.217	2170.4
1957Q1	29	2182.7	3.3672958	11.3386812	7349.797	2182.7
1957Q2	30	2177.7	3.4011974	11.5681436	7406.788	2177.7
1957Q3	31	2198.9	3.4339872	11.7922681	7550.994	2198.9
1957Q4	32	2176	3.4657359	12.0113253	7541.441	2176
1958Q1	33	2117.4	3.4965076	12.2255651	7403.505	2117.4
1958Q2	34	2129.7	3.5263605	12.4352185	7510.09	2129.7
1958Q3	35	2177.5	3.5553481	12.6404998	7741.77	2177.5
1958Q4	36	2226.5	3.5835189	12.8416080	7978.705	2226.5
1959Q1	37	2273	3.6109179	13.0387282	8207.616	2273
1959Q2	38	2332.4	3.6375862	13.2320331	8484.306	2332.4
1959Q3	39	2331.4	3.6635616	13.4216839	8541.228	2331.4
1959Q4	40	2339.1	3.6888795	13.6078316	8628.658	2339.1
1960Q1	41	2391	3.7135721	13.7906175	8879.151	2391
1960Q2	42	2379.2	3.7376696	13.9701742	8892.664	2379.2
1960Q3	43	2383.6	3.7612001	14.1466263	8965.197	2383.6
1960Q4	44	2352.9	3.7841896	14.3200912	8903.82	2352.9



1961Q1	45	2366.5	3.8066625	14.4906793	9008.467	2366.5
1961Q2	46	2410.8	3.8286414	14.6584949	9230.089	2410.8
1961Q3	47	2450.4	3.8501476	14.8236366	9434.402	2450.4
1961Q4	48	2500.4	3.8712010	14.9861973	9679.551	2500.4
1962Q1	49	2544	3.8918203	15.1462652	9900.791	2544
1962Q2	50	2571.5	3.9120230	15.3039240	10059.77	2571.5
1962Q3	51	2596.8	3.9318256	15.4592528	10210.16	2596.8
1962Q4	52	2603.3	3.9512437	15.6123269	10286.27	2603.3
1963Q1	53	2634.1	3.9702919	15.7632179	10458.15	2634.1
1963Q2	54	2668.4	3.9889840	15.9119937	10644.21	2668.4
1963Q3	55	2719.6	4.0073332	16.0587193	10898.34	2719.6
1963Q4	56	2739.4	4.0253517	16.2034562	11027.05	2739.4
1964Q1	57	2800.5	4.0430513	16.3462636	11322.57	2800.5
1964Q2	58	2833.8	4.0604430	16.4871974	11506.48	2833.8
1964Q3	59	2872	4.0775374	16.6263116	11710.69	2872
1964Q4	60	2879.5	4.0943446	16.7636574	11789.67	2879.5
1965Q1	61	2950.1	4.1108739	16.8992839	12127.49	2950.1
1965Q2	62	2989.9	4.1271344	17.0332382	12339.72	2989.9
1965Q3	63	3050.7	4.1431347	17.1655654	12639.46	3050.7
1965Q4	64	3123.6	4.1588831	17.2963085	12990.69	3123.6
1966Q1	65	3201.1	4.1743873	17.4255091	13362.63	3201.1
1966Q2	66	3213.2	4.1896547	17.5532069	13462.2	3213.2
1966Q3	67	3233.6	4.2046926	17.6794400	13596.29	3233.6
1966Q4	68	3261.8	4.2195077	17.8042453	13763.19	3261.8
1967Q1	69	3291.8	4.2341065	17.9276579	13937.83	3291.8
1967Q2	70	3289.7	4.2484952	18.0497118	13976.27	3289.7
1967Q3	71	3313.5	4.2626799	18.1704397	14124.39	3313.5
1967Q4	72	3338.3	4.2766661	18.2898731	14276.79	3338.3
1968Q1	73	3406.2	4.2904594	18.4080422	14614.16	3406.2
1968Q2	74	3464.8	4.3040651	18.5249763	14912.72	3464.8
1968Q3	75	3489.2	4.3174881	18.6407036	15064.58	3489.2
1968Q4	76	3504.1	4.3307333	18.7552513	15175.32	3504.1
1969Q1	77	3558.3	4.3438054	18.8686455	15456.56	3558.3
1969Q2	78	3567.6	4.3567088	18.9809118	15542.99	3567.6
1969Q3	79	3588.3	4.3694479	19.0920745	15678.89	3588.3
1969Q4	80	3571.4	4.3820266	19.2021574	15649.97	3571.4
1970Q1	81	3566.5	4.3944492	19.3111834	15672.8	3566.5
1970Q2	82	3573.9	4.4067192	19.4191745	15749.17	3573.9
1970Q3	83	3605.2	4.4188406	19.5261523	15930.8	3605.2
1970Q4	84	3566.5	4.4308168	19.6321375	15802.51	3566.5
1971Q1	85	3666.1	4.4426513	19.7371502	16287.2	3666.1
1971Q2	86	3686.2	4.4543473	19.8412098	16419.62	3686.2
1971Q3	87	3714.5	4.4659081	19.9443353	16588.62	3714.5
1971Q4	88	3723.8	4.4773368	20.0465450	16672.71	3723.8
1972Q1	89	3796.9	4.4886364	20.1478565	17042.9	3796.9

1972Q2	90	3883.8	4.4998097	20.2482871	17476.36	3883.8
1972Q3	91	3922.3	4.5108595	20.3478535	17692.94	3922.3
1972Q4	92	3990.5	4.5217886	20.4465719	18044.2	3990.5
1973Q1	93	4092.3	4.5325995	20.5444582	18548.76	4092.3
1973Q2	94	4133.3	4.5432948	20.6415275	18778.8	4133.3
1973Q3	95	4117	4.5538769	20.7377947	18748.31	4117
1973Q4	96	4151.1	4.5643482	20.8332744	18947.07	4151.1
1974Q1	97	4119.3	4.5747110	20.9279805	18844.61	4119.3
1974Q2	98	4130.4	4.5849675	21.0219268	18937.75	4130.4
1974Q3	99	4084.5	4.5951199	21.1151264	18768.77	4084.5
1974Q4	100	4062	4.6051702	21.2075924	18706.2	4062
1975Q1	101	4010	4.6151205	21.2993374	18506.63	4010
1975Q2	102	4045.2	4.6249728	21.3903735	18708.94	4045.2
1975Q3	103	4115.4	4.6347290	21.4807128	19073.76	4115.4
1975Q4	104	4167.2	4.6443909	21.5703668	19354.11	4167.2
1976Q1	105	4266.1	4.6539604	21.6593469	19854.26	4266.1
1976Q2	106	4301.5	4.6634391	21.7476642	20059.78	4301.5
1976Q3	107	4321.9	4.6728288	21.8353293	20195.5	4321.9
1976Q4	108	4357.4	4.6821312	21.9223528	20401.92	4357.4
1977Q1	109	4410.5	4.6913479	22.0087450	20691.19	4410.5
1977Q2	110	4489.8	4.7004804	22.0945157	21104.22	4489.8
1977Q3	111	4570.6	4.7095302	22.1796747	21525.38	4570.6
1977Q4	112	4576.1	4.7184989	22.2642316	21592.32	4576.1
1978Q1	113	4588.9	4.7273878	22.3481956	21693.51	4588.9
1978Q2	114	4765.7	4.7361984	22.4315757	22571.3	4765.7
1978Q3	115	4811.7	4.7449321	22.5143809	22831.19	4811.7
1978Q4	116	4876	4.7535902	22.5966197	23178.51	4876
1979Q1	117	4888.3	4.7621739	22.6783006	23278.93	4888.3
1979Q2	118	4891.4	4.7706846	22.7594318	23335.33	4891.4
1979Q3	119	4926.2	4.7791235	22.8400214	23542.92	4926.2
1979Q4	120	4942.6	4.7874917	22.9200772	23662.66	4942.6
1980Q1	121	4958.9	4.7957905	22.9996070	23781.85	4958.9
1980Q2	122	4857.8	4.8040210	23.0786182	23336.97	4857.8
1980Q3	123	4850.3	4.8121844	23.1571183	23340.54	4850.3
1980Q4	124	4936.6	4.8202816	23.2351144	23795.8	4936.6
1981Q1	125	5032.5	4.8283137	23.3126135	24298.49	5032.5
1981Q2	126	4997.3	4.8362819	23.3896227	24168.35	4997.3
1981Q3	127	5056.8	4.8441871	23.4661485	24496.09	5056.8
1981Q4	128	4997.1	4.8520303	23.5421977	24246.08	4997.1
1982Q1	129	4914.3	4.8598124	23.6177766	23882.58	4914.3
1982Q2	130	4935.5	4.8675345	23.6928916	24023.72	4935.5
1982Q3	131	4912.1	4.8751973	23.7675489	23947.46	4912.1
1982Q4	132	4915.6	4.8828019	23.8417546	24001.9	4915.6
1983Q1	133	4972.4	4.8903491	23.9155146	24316.77	4972.4
1983Q2	134	5089.8	4.8978398	23.9888347	24929.03	5089.8

1983Q3	135	<b>5180.4</b>	4.9052748	24.0617207	25411.29	<b>5180.4</b>
1983Q4	136	<b>5286.8</b>	4.9126549	24.1341780	25972.22	<b>5286.8</b>
1984Q1	137	<b>5402.3</b>	4.9199809	24.2062123	26579.21	<b>5402.3</b>
1984Q2	138	<b>5493.8</b>	4.9272537	24.2778289	27069.35	<b>5493.8</b>
1984Q3	139	<b>5541.3</b>	4.9344739	24.3490330	27343.4	<b>5541.3</b>
1984Q4	140	<b>5583.1</b>	4.9416424	24.4198298	27589.68	<b>5583.1</b>
1985Q1	141	<b>5629.7</b>	4.9487599	24.4902245	27860.03	<b>5629.7</b>
1985Q2	142	<b>5673.8</b>	4.9558271	24.5602218	28118.37	<b>5673.8</b>
1985Q3	143	<b>5758.6</b>	4.9628446	24.6298268	28579.04	<b>5758.6</b>
1985Q4	144	<b>5806</b>	4.9698133	24.6990442	28854.74	<b>5806</b>
1986Q1	145	<b>5858.9</b>	4.9767337	24.7678787	29158.19	<b>5858.9</b>
1986Q2	146	<b>5883.3</b>	4.9836066	24.8363350	29320.05	<b>5883.3</b>
1986Q3	147	<b>5937.9</b>	4.9904326	24.9044174	29632.69	<b>5937.9</b>
1986Q4	148	<b>5969.5</b>	4.9972123	24.9721305	29830.86	<b>5969.5</b>
1987Q1	149	<b>6013.3</b>	5.0039463	25.0394786	30090.23	<b>6013.3</b>
1987Q2	150	<b>6077.2</b>	5.0106353	25.1064661	30450.63	<b>6077.2</b>
1987Q3	151	<b>6128.1</b>	5.0172798	25.1730970	30746.39	<b>6128.1</b>
1987Q4	152	<b>6234.4</b>	5.0238805	25.2393755	31320.88	<b>6234.4</b>
1988Q1	153	<b>6275.9</b>	5.0304379	25.3053057	31570.53	<b>6275.9</b>
1988Q2	154	<b>6349.8</b>	5.0369526	25.3708915	31983.64	<b>6349.8</b>
1988Q3	155	<b>6382.3</b>	5.0434251	25.4361369	32188.65	<b>6382.3</b>
1988Q4	156	<b>6465.2</b>	5.0498560	25.5010457	32648.33	<b>6465.2</b>
1989Q1	157	<b>6543.8</b>	5.0562458	25.5656216	33087.06	<b>6543.8</b>
1989Q2	158	<b>6579.4</b>	5.0625950	25.6298685	33308.84	<b>6579.4</b>
1989Q3	159	<b>6610.6</b>	5.0689042	25.6937898	33508.5	<b>6610.6</b>
1989Q4	160	<b>6633.5</b>	5.0751738	25.7573893	33666.17	<b>6633.5</b>
1990Q1	161	<b>6716.3</b>	5.0814044	25.8206703	34128.24	<b>6716.3</b>
1990Q2	162	<b>6731.7</b>	5.0875963	25.8836365	34248.17	<b>6731.7</b>
1990Q3	163	<b>6719.4</b>	5.0937502	25.9462911	34226.95	<b>6719.4</b>
1990Q4	164	<b>6664.2</b>	5.0998664	26.0086376	33986.53	<b>6664.2</b>
1991Q1	165	<b>6631.4</b>	5.1059455	26.0706792	33859.57	<b>6631.4</b>
1991Q2	166	<b>6668.5</b>	5.1119878	26.1324191	34089.29	<b>6668.5</b>
1991Q3	167	<b>6684.9</b>	5.1179938	26.1938607	34213.28	<b>6684.9</b>
1991Q4	168	<b>6720.9</b>	5.1239640	26.2550069	34437.65	<b>6720.9</b>
1992Q1	169	<b>6783.3</b>	5.1298987	26.3158608	34797.64	<b>6783.3</b>
1992Q2	170	<b>6846.8</b>	5.1357984	26.3764256	35163.78	<b>6846.8</b>
1992Q3	171	<b>6899.7</b>	5.1416636	26.4367041	35475.94	<b>6899.7</b>
1992Q4	172	<b>6990.6</b>	5.1474945	26.4966994	35984.07	<b>6990.6</b>
1993Q1	173	<b>6988.7</b>	5.1532916	26.5564143	36014.81	<b>6988.7</b>
1993Q2	174	<b>7031.2</b>	5.1590553	26.6158516	36274.35	<b>7031.2</b>
1993Q3	175	<b>7062</b>	5.1647860	26.6750142	36473.72	<b>7062</b>
1993Q4	176	<b>7168.7</b>	5.1704840	26.7339047	37065.65	<b>7168.7</b>
1994Q1	177	<b>7229.4</b>	5.1761497	26.7925261	37420.46	<b>7229.4</b>
1994Q2	178	<b>7330.2</b>	5.1817836	26.8508808	37983.51	<b>7330.2</b>
1994Q3	179	<b>7370.2</b>	5.1873858	26.9089715	38232.07	<b>7370.2</b>

1994Q4	180	7461.1	5.1929569	26.9668009	38745.17	7461.1
1995Q1	181	7488.7	5.1984970	27.0243714	38929.98	7488.7
1995Q2	182	7503.3	5.2040067	27.0816856	39047.22	7503.3
1995Q3	183	7561.4	5.2094862	27.1387460	39391.01	7561.4
1995Q4	184	7621.9	5.2149358	27.1955550	39747.72	7621.9
1996Q1	185	7676.4	5.2203558	27.2521149	40073.54	7676.4
1996Q2	186	7802.9	5.2257467	27.3084283	40775.98	7802.9
1996Q3	187	7841.9	5.2311086	27.3644974	41021.83	7841.9
1996Q4	188	7931.3	5.2364420	27.4203244	41531.79	7931.3
1997Q1	189	8016.4	5.2417470	27.4759118	42019.94	8016.4
1997Q2	190	8131.9	5.2470241	27.5312616	42668.28	8131.9
1997Q3	191	8216.6	5.2522734	27.5863762	43155.83	8216.6
1997Q4	192	8272.9	5.2574954	27.6412576	43494.73	8272.9
1998Q1	193	8396.3	5.2626902	27.6959080	44187.13	8396.3
1998Q2	194	8442.9	5.2678582	27.7503296	44476	8442.9
1998Q3	195	8528.5	5.2729996	27.8045243	44970.78	8528.5
1998Q4	196	8667.9	5.2781147	27.8584944	45750.17	8667.9
1999Q1	197	8733.5	5.2832037	27.9122416	46140.86	8733.5
1999Q2	198	8771.2	5.2882670	27.9657682	46384.45	8771.2
1999Q3	199	8871.5	5.2933048	28.0190760	46959.55	8871.5
1999Q4	200	9049.9	5.2983174	28.0721669	47949.24	9049.9
2000Q1	201	9102.5	5.3033049	28.1250429	48273.33	9102.5
2000Q2	202	9229.4	5.3082677	28.1777059	48992.13	9229.4
2000Q3	203	9260.1	5.3132060	28.2301578	49200.82	9260.1
2000Q4	204	9303.9	5.3181200	28.2824003	49479.26	9303.9
sumace	20910	930779.7	884.4748858	4019.955886	4369420	930779.7

$X^T X =$	204.0000	884.4749
	884.4749	4019.9559

$\det(X^T X)$	37775.177
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$(X^T X)^{-1}$	0.1064179	-0.0234142
	-0.0234142	0.0054004

$X^T y =$	930780
	4369420

b1	-3254.753
b2	1803.046

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vyrovnání	rezidua	abs.rezidua	rezidua^2	APE	MAPE	$y_t^2$
-3254.753	4865.253	4865.253	23670686.181	3.021	1.479	2593710.25
-2004.976	3663.776	3663.776	13423257.364	2.209	5.292	2751617.44
-1273.904	2996.904	2996.904	8981433.332	1.739	3.337	2968729.00
-755.200	2509.100	2509.100	6295581.903	1.431	5.025	3076165.21
-352.862	2126.362	2126.362	4521413.790	1.199	0.748	3145302.25
-24.127	1827.827	1827.827	3340952.992	1.013	0.514	3253333.69
253.813	1585.987	1585.987	2515353.372	0.862	0.379	3384864.04
494.577	1348.723	1348.723	1819054.427	0.732	0.288	3397754.89
706.945	1157.755	1157.755	1340396.581	0.621	0.225	3477106.09
896.915	969.285	969.285	939513.549	0.519	0.175	3482702.44
1068.764	809.236	809.236	654863.535	0.431	0.137	3526884.00
1225.649	714.551	714.551	510582.897	0.368	0.113	3764376.04
1369.970	606.030	606.030	367272.502	0.307	0.091	3904576.00
1503.590	488.610	488.610	238739.732	0.245	0.070	3968860.84
1627.987	351.513	351.513	123561.142	0.178	0.049	3918420.25
1744.353	203.447	203.447	41390.559	0.104	0.028	3793924.84
1853.662	84.438	84.438	7129.723	0.044	0.011	3756231.61
1956.722	-15.722	15.722	247.168	0.008	0.002	3767481.00
2054.207	-92.207	92.207	8502.186	0.047	0.011	3849444.00
2146.691	-145.791	145.791	21255.159	0.073	0.018	4003600.81
2234.662	-176.562	176.562	31174.289	0.086	0.021	4235775.61
2318.540	-227.540	227.540	51774.529	0.109	0.026	4372281.00
2398.689	-279.789	279.789	78281.752	0.132	0.031	4489737.21
2475.426	-345.326	345.326	119249.856	0.162	0.037	4537326.01
2549.030	-428.030	428.030	183209.405	0.202	0.183	4498641.00
2619.746	-482.046	482.046	232368.775	0.225	0.203	4569761.29
2687.794	-552.494	552.494	305249.630	0.259	0.229	4559506.09
2753.367	-582.967	582.967	339850.011	0.269	0.237	4710636.16
2816.638	-633.938	633.938	401877.185	0.290	0.254	4764179.29
2877.764	-700.064	700.064	490089.481	0.321	0.277	4742377.29
2936.885	-737.985	737.985	544622.577	0.336	0.287	4835161.21
2994.130	-818.130	818.130	669336.474	0.376	0.316	4734976.00
3049.613	-932.213	932.213	869020.319	0.440	0.361	4483382.76
3103.439	-973.739	973.739	948167.392	0.457	0.372	4535622.09
3155.705	-978.205	978.205	956884.529	0.449	0.367	4741506.25
3206.498	-979.998	979.998	960396.369	0.440	0.361	4957302.25
3255.900	-982.900	982.900	966091.959	0.432	0.356	5166529.00
3303.984	-971.584	971.584	943975.195	0.417	0.345	5440089.76
3350.819	-1019.419	1019.419	1039214.827	0.437	0.359	5435425.96
3396.468	-1057.368	1057.368	1118027.195	0.452	0.369	5471388.81
3440.990	-1049.990	1049.990	1102478.955	0.439	0.360	5716881.00
3484.439	-1105.239	1105.239	1221553.210	0.465	0.377	5660592.64
3526.866	-1143.266	1143.266	1307056.147	0.480	0.387	5681548.96
3568.317	-1215.417	1215.417	1477237.832	0.517	0.411	5536138.41

3608.836	-1242.336	1242.336	1543399.569	0.525	0.416	5600322.25
3648.465	-1237.665	1237.665	1531815.456	0.513	0.409	5811956.64
3687.242	-1236.842	1236.842	1529778.161	0.505	0.403	6004460.16
3725.202	-1224.802	1224.802	1500140.640	0.490	0.393	6252000.16
3762.380	-1218.380	1218.380	1484449.382	0.479	0.386	6471936.00
3798.806	-1227.306	1227.306	1506280.602	0.477	0.385	6612612.25
3834.511	-1237.711	1237.711	1531929.250	0.477	0.385	6743370.24
3869.523	-1266.223	1266.223	1603320.700	0.486	0.391	6777170.89
3903.868	-1269.768	1269.768	1612310.230	0.482	0.388	6938482.81
3937.571	-1269.171	1269.171	1610793.936	0.476	0.384	7120358.56
3970.655	-1251.055	1251.055	1565138.411	0.460	0.374	7396224.16
4003.143	-1263.743	1263.743	1597046.677	0.461	0.375	7504312.36
4035.056	-1234.556	1234.556	1524129.211	0.441	0.361	7842800.25
4066.414	-1232.614	1232.614	1519338.262	0.435	0.357	8030422.44
4097.236	-1225.236	1225.236	1501204.379	0.427	0.352	8248384.00
4127.540	-1248.040	1248.040	1557605.023	0.433	0.356	8291520.25
4157.344	-1207.244	1207.244	1457437.043	0.409	0.340	8703090.01
4186.662	-1196.762	1196.762	1432239.397	0.400	0.334	8939502.01
4215.511	-1164.811	1164.811	1356785.610	0.382	0.321	9306770.49
4243.906	-1120.306	1120.306	1255086.485	0.359	0.304	9756876.96
4271.861	-1070.761	1070.761	1146529.533	0.334	0.287	10247041.21
4299.389	-1086.189	1086.189	1179806.879	0.338	0.289	10324654.24
4326.503	-1092.903	1092.903	1194437.286	0.338	0.289	10456168.96
4353.215	-1091.415	1091.415	1191187.649	0.335	0.287	10639339.24
4379.538	-1087.738	1087.738	1183173.406	0.330	0.284	10835947.24
4405.481	-1115.781	1115.781	1244967.929	0.339	0.290	10822126.09
4431.057	-1117.557	1117.557	1248933.346	0.337	0.289	10979282.25
4456.275	-1117.975	1117.975	1249867.449	0.335	0.287	11144246.89
4481.145	-1074.945	1074.945	1155506.127	0.316	0.273	11602198.44
4505.676	-1040.876	1040.876	1083423.538	0.300	0.261	12004839.04
4529.879	-1040.679	1040.679	1083012.075	0.298	0.260	12174516.64
4553.760	-1049.660	1049.660	1101786.997	0.300	0.261	12278716.81
4577.330	-1019.030	1019.030	1038422.120	0.286	0.251	12661498.89
4600.595	-1032.995	1032.995	1067079.555	0.290	0.253	12727769.76
4623.564	-1035.264	1035.264	1071772.550	0.289	0.252	12875896.89
4646.245	-1074.845	1074.845	1155290.940	0.301	0.262	12754897.96
4668.643	-1102.143	1102.143	1214719.176	0.309	0.268	12719922.25
4690.767	-1116.867	1116.867	1247390.867	0.313	0.270	12772761.21
4712.622	-1107.422	1107.422	1226383.299	0.307	0.266	12997467.04
4734.216	-1167.716	1167.716	1363559.592	0.327	0.281	12719922.25
4755.554	-1089.454	1089.454	1186909.192	0.297	0.259	13440289.21
4776.642	-1090.442	1090.442	1189064.025	0.296	0.258	13588070.44
4797.487	-1082.987	1082.987	1172860.460	0.292	0.254	13797510.25
4818.093	-1094.293	1094.293	1197477.811	0.294	0.256	13866686.44
4838.467	-1041.567	1041.567	1084861.640	0.274	0.241	14416449.61

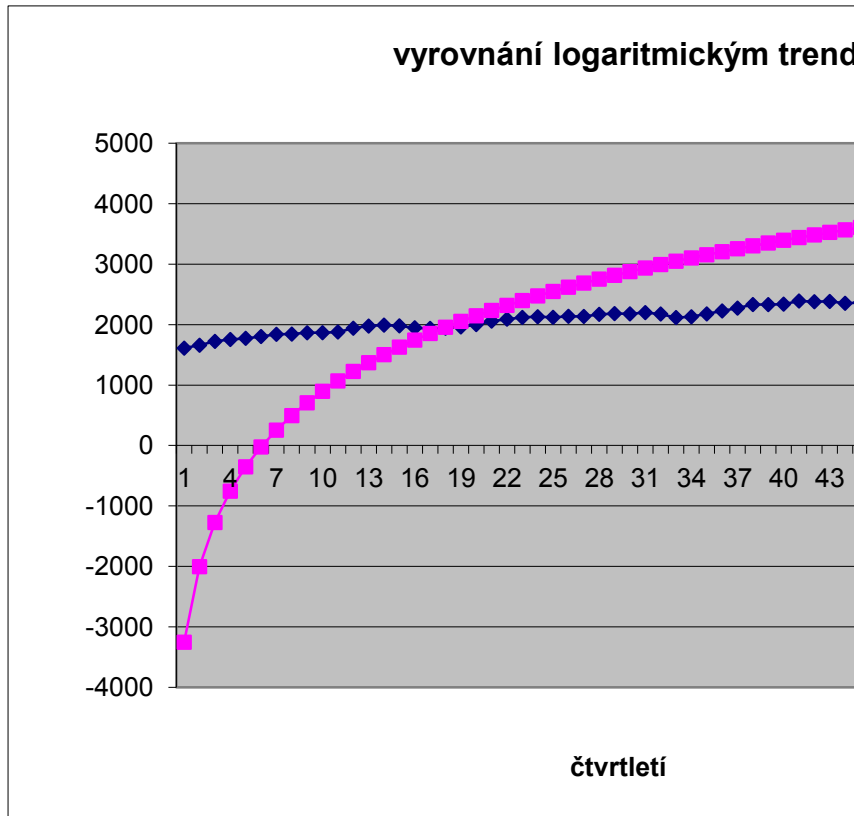
4858.613	-974.813	974.813	950260.182	0.251	0.223	15083902.44
4878.536	-956.236	956.236	914387.792	0.244	0.217	15384437.29
4898.242	-907.742	907.742	823995.331	0.227	0.204	15924090.25
4917.734	-825.434	825.434	681342.063	0.202	0.183	16746919.29
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4956.099	-839.099	839.099	704086.472	0.204	0.185	16949689.00
4974.979	-823.879	823.879	678776.355	0.198	0.181	17231631.21
4993.663	-874.363	874.363	764511.414	0.212	0.192	16968632.49
5012.156	-881.756	881.756	777494.313	0.213	0.193	17060204.16
5030.462	-945.962	945.962	894843.305	0.232	0.208	16683140.25
5048.583	-986.583	986.583	973345.620	0.243	0.217	16499844.00
5066.524	-1056.524	1056.524	1116242.345	0.263	0.233	16080100.00
5084.288	-1039.088	1039.088	1079703.572	0.257	0.228	16363643.04
5101.879	-986.479	986.479	973140.211	0.240	0.214	16936517.16
5119.300	-952.100	952.100	906493.585	0.228	0.205	17365555.84
5136.554	-870.454	870.454	757689.698	0.204	0.185	18199609.21
5153.644	-852.144	852.144	726149.988	0.198	0.180	18502902.25
5170.574	-848.674	848.674	720248.381	0.196	0.179	18678819.61
5187.347	-829.947	829.947	688812.240	0.190	0.174	18986934.76
5203.965	-793.465	793.465	629587.005	0.180	0.165	19452510.25
5220.431	-730.631	730.631	533822.360	0.163	0.150	20158304.04
5236.749	-666.149	666.149	443754.162	0.146	0.136	20890384.36
5252.920	-676.820	676.820	458084.883	0.148	0.138	20940691.21
5268.947	-680.047	680.047	462463.742	0.148	0.138	21058003.21
5284.833	-519.133	519.133	269498.908	0.109	0.103	22711896.49
5300.580	-488.880	488.880	239003.726	0.102	0.097	23152456.89
5316.191	-440.191	440.191	193768.083	0.090	0.086	23775376.00
5331.668	-443.368	443.368	196575.051	0.091	0.087	23895476.89
5347.013	-455.613	455.613	207583.223	0.093	0.089	23925793.96
5362.229	-436.029	436.029	190121.020	0.089	0.085	24267446.44
5377.317	-434.717	434.717	188978.900	0.088	0.084	24429294.76
5392.280	-433.380	433.380	187818.364	0.087	0.084	24590689.21
5407.120	-549.320	549.320	301752.609	0.113	0.107	23598220.84
5421.839	-571.539	571.539	326656.785	0.118	0.111	23525410.09
5436.439	-499.839	499.839	249838.634	0.101	0.096	24370019.56
5450.921	-418.421	418.421	175076.122	0.083	0.080	25326056.25
5465.288	-467.988	467.988	219012.737	0.094	0.089	24973007.29
5479.541	-422.741	422.741	178710.268	0.084	0.080	25571226.24
5493.683	-496.583	496.583	246594.662	0.099	0.095	24971008.41
5507.715	-593.415	593.415	352140.824	0.121	0.114	24150344.49
5521.638	-586.138	586.138	343557.467	0.119	0.112	24359160.25
5535.454	-623.354	623.354	388570.545	0.127	0.119	24128726.41
5549.166	-633.566	633.566	401405.516	0.129	0.121	24163123.36
5562.774	-590.374	590.374	348541.079	0.119	0.112	24724761.76
5576.280	-486.480	486.480	236662.505	0.096	0.091	25906064.04

5589.685	-409.285	409.285	167514.472	0.079	0.076	26836544.16
5602.992	-316.192	316.192	99977.377	0.060	0.058	27950254.24
5616.201	-213.901	213.901	45753.717	0.040	0.039	29184845.29
5629.314	-135.514	135.514	18364.128	0.025	0.024	30181838.44
5642.333	-101.033	101.033	10207.617	0.018	0.018	30706005.69
5655.258	-72.158	72.158	5206.758	0.013	0.013	31171005.61
5668.091	-38.391	38.391	1473.868	0.007	0.007	31693522.09
5680.833	-7.033	7.033	49.469	0.001	0.001	32192006.44
5693.486	65.114	65.114	4239.776	0.011	0.011	33161473.96
5706.051	99.949	99.949	9989.749	0.017	0.017	33709636.00
5718.529	140.371	140.371	19703.976	0.024	0.024	34326709.21
5730.921	152.379	152.379	23219.277	0.026	0.026	34613218.89
5743.229	194.671	194.671	37896.875	0.033	0.033	35258656.41
5755.453	214.047	214.047	45816.164	0.036	0.037	35634930.25
5767.595	245.705	245.705	60371.111	0.041	0.042	36159776.89
5779.655	297.545	297.545	88532.895	0.049	0.050	36932359.84
5791.636	336.464	336.464	113208.265	0.055	0.056	37553609.61
5803.537	430.863	430.863	185642.941	0.069	0.072	38867743.36
5815.360	460.540	460.540	212096.835	0.073	0.076	39386920.81
5827.107	522.693	522.693	273208.442	0.082	0.086	40319960.04
5838.777	543.523	543.523	295417.474	0.085	0.089	40733753.29
5850.372	614.828	614.828	378013.483	0.095	0.100	41798811.04
5861.893	681.907	681.907	464997.031	0.104	0.110	42821318.44
5873.341	706.059	706.059	498519.249	0.107	0.113	43288504.36
5884.717	725.883	725.883	526906.465	0.110	0.116	43700032.36
5896.021	737.479	737.479	543875.021	0.111	0.118	44003322.25
5907.255	809.045	809.045	654553.580	0.120	0.128	45108685.69
5918.420	813.280	813.280	661425.085	0.121	0.129	45315784.89
5929.515	789.885	789.885	623917.904	0.118	0.125	45150336.36
5940.543	723.657	723.657	523679.309	0.109	0.115	44411561.64
5951.504	679.896	679.896	462258.703	0.103	0.108	43975465.96
5962.398	706.102	706.102	498579.362	0.106	0.112	44468892.25
5973.228	711.672	711.672	506477.581	0.106	0.112	44687888.01
5983.992	736.908	736.908	543033.246	0.110	0.116	45170496.81
5994.693	788.607	788.607	621901.460	0.116	0.123	46013158.89
6005.330	841.470	841.470	708071.455	0.123	0.131	46878670.24
6015.905	883.795	883.795	781093.134	0.128	0.137	47605860.09
6026.419	964.181	964.181	929645.609	0.138	0.148	48868488.36
6036.871	951.829	951.829	905978.146	0.136	0.146	48841927.69
6047.263	983.937	983.937	968131.263	0.140	0.150	49437773.44
6057.596	1004.404	1004.404	1008827.280	0.142	0.153	49871844.00
6067.870	1100.830	1100.830	1211827.011	0.154	0.166	51390259.69
6078.085	1151.315	1151.315	1325525.212	0.159	0.173	52264224.36
6088.243	1241.957	1241.957	1542456.005	0.169	0.185	53731832.04
6098.345	1271.855	1271.855	1617616.149	0.173	0.189	54319848.04



6108.389	1352.711	1352.711	1829825.814	0.181	0.199	55668013.21
6118.379	1370.321	1370.321	1877780.577	0.183	0.201	56080627.69
6128.313	1374.987	1374.987	1890589.732	0.183	0.202	56299510.89
6138.193	1423.207	1423.207	2025519.429	0.188	0.208	57174769.96
6148.018	1473.882	1473.882	2172326.834	0.193	0.214	58093359.61
6157.791	1518.609	1518.609	2306173.052	0.198	0.220	58927116.96
6167.511	1635.389	1635.389	2674497.082	0.210	0.234	60885248.41
6177.179	1664.721	1664.721	2771296.465	0.212	0.237	61495395.61
6186.795	1744.505	1744.505	3043297.230	0.220	0.247	62905519.69
6196.360	1820.040	1820.040	3312544.186	0.227	0.256	64262668.96
6205.875	1926.025	1926.025	3709571.654	0.237	0.269	66127797.61
6215.340	2001.260	2001.260	4005041.586	0.244	0.277	67512515.56
6224.755	2048.145	2048.145	4194896.270	0.248	0.283	68440874.41
6234.122	2162.178	2162.178	4675014.118	0.258	0.296	70497853.69
6243.440	2199.460	2199.460	4837624.317	0.261	0.300	71282560.41
6252.710	2275.790	2275.790	5179219.321	0.267	0.308	72735312.25
6261.933	2405.967	2405.967	5788677.491	0.278	0.322	75132490.41
6271.109	2462.391	2462.391	6063370.574	0.282	0.328	76274022.25
6280.238	2490.962	2490.962	6204890.999	0.284	0.331	76933949.44
6289.322	2582.178	2582.178	6667645.731	0.291	0.341	78703512.25
6298.359	2751.541	2751.541	7570975.893	0.304	0.359	81900690.01
6307.352	2795.148	2795.148	7812851.620	0.307	0.363	82855506.25
6316.300	2913.100	2913.100	8486150.044	0.316	0.375	85181824.36
6325.204	2934.896	2934.896	8613613.240	0.317	0.377	85749452.01
6334.064	2969.836	2969.836	8819923.391	0.319	0.380	86562555.21
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	(SE)	SAE	SSE			
	<b>2.5216E-11</b>	<b>1009.124</b>	<b>1495993.186</b>	<b>28.145</b>	<b>27.641</b>	
	ME	MAE	MSE	MAPE	AMAPE	
<b>0.12352</b>			<b>1223.108</b>			
			RMSE			

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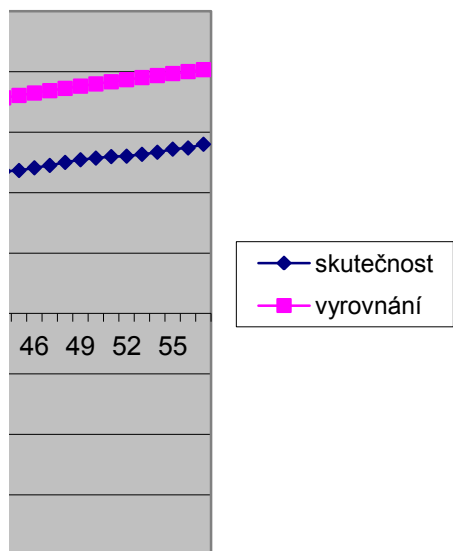
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**4848809131**

lem



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1950Q1	1	7.3843	1	7.4
1950Q2	2	7.4138	4	14.8
1950Q3	3	7.4518	9	22.4
1950Q4	4	7.4696	16	29.9
1951Q1	5	7.4807	25	37.4
1951Q2	6	7.4976	36	45.0
1951Q3	7	7.5174	49	52.6
1951Q4	8	7.5193	64	60.2
1952Q1	9	7.5309	81	67.8
1952Q2	10	7.5317	100	75.3
1952Q3	11	7.5380	121	82.9
1952Q4	12	7.5705	144	90.8
1953Q1	13	7.5888	169	98.7
1953Q2	14	7.5970	196	106.4
1953Q3	15	7.5906	225	113.9
1953Q4	16	7.5745	256	121.2
1954Q1	17	7.5695	289	128.7
1954Q2	18	7.5710	324	136.3
1954Q3	19	7.5817	361	144.1
1954Q4	20	7.6014	400	152.0
1955Q1	21	7.6295	441	160.2
1955Q2	22	7.6454	484	168.2
1955Q3	23	7.6587	529	176.1
1955Q4	24	7.6639	576	183.9
1956Q1	25	7.6596	625	191.5
1956Q2	26	7.6675	676	199.4
1956Q3	27	7.6664	729	207.0
1956Q4	28	7.6827	784	215.1
1957Q1	29	7.6883	841	223.0
1957Q2	30	7.6860	900	230.6
1957Q3	31	7.6957	961	238.6
1957Q4	32	7.6852	1024	245.9
1958Q1	33	7.6579	1089	252.7
1958Q2	34	7.6637	1156	260.6
1958Q3	35	7.6859	1225	269.0
1958Q4	36	7.7082	1296	277.5
1959Q1	37	7.7289	1369	286.0
1959Q2	38	7.7547	1444	294.7
1959Q3	39	7.7542	1521	302.4
1959Q4	40	7.7575	1600	310.3
1960Q1	41	7.7795	1681	319.0
1960Q2	42	7.7745	1764	326.5
1960Q3	43	7.7764	1849	334.4
1960Q4	44	7.7634	1936	341.6

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1940.2	2339.5
1976	2353.8
1992.2	2368.3
1979.5	2382.9
1947.8	2397.5
1938.1	2412.3
1941	2427.1
1962	2442.0
2000.9	2457.0
2058.1	2472.1
2091	2487.3
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2379.2	2811.7
2383.6	2828.9
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1961Q1	45	7.7692	2025	349.6
1961Q2	46	7.7877	2116	358.2
1961Q3	47	7.8040	2209	366.8
1961Q4	48	7.8242	2304	375.6
1962Q1	49	7.8415	2401	384.2
1962Q2	50	7.8522	2500	392.6
1962Q3	51	7.8620	2601	401.0
1962Q4	52	7.8645	2704	409.0
1963Q1	53	7.8763	2809	417.4
1963Q2	54	7.8892	2916	426.0
1963Q3	55	7.9082	3025	435.0
1963Q4	56	7.9155	3136	443.3
1964Q1	57	7.9376	3249	452.4
1964Q2	58	7.9494	3364	461.1
1964Q3	59	7.9628	3481	469.8
1964Q4	60	7.9654	3600	477.9
1965Q1	61	7.9896	3721	487.4
1965Q2	62	8.0030	3844	496.2
1965Q3	63	8.0231	3969	505.5
1965Q4	64	8.0467	4096	515.0
1966Q1	65	8.0712	4225	524.6
1966Q2	66	8.0750	4356	533.0
1966Q3	67	8.0814	4489	541.5
1966Q4	68	8.0900	4624	550.1
1967Q1	69	8.0992	4761	558.8
1967Q2	70	8.0986	4900	566.9
1967Q3	71	8.1058	5041	575.5
1967Q4	72	8.1132	5184	584.2
1968Q1	73	8.1334	5329	593.7
1968Q2	74	8.1504	5476	603.1
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1968Q4	76	8.1617	5776	620.3
1969Q1	77	8.1770	5929	629.6
1969Q2	78	8.1796	6084	638.0
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1969Q4	80	8.1807	6400	654.5
1970Q1	81	8.1793	6561	662.5
1970Q2	82	8.1814	6724	670.9
1970Q3	83	8.1901	6889	679.8
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1971Q1	85	8.2069	7225	697.6
1971Q2	86	8.2124	7396	706.3
1971Q3	87	8.2200	7569	715.1
1971Q4	88	8.2225	7744	723.6
1972Q1	89	8.2419	7921	733.5

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1972Q2	90	8.2646	8100	743.8
1972Q3	91	8.2744	8281	753.0
1972Q4	92	8.2917	8464	762.8
1973Q1	93	8.3169	8649	773.5
1973Q2	94	8.3268	8836	782.7
1973Q3	95	8.3229	9025	790.7
1973Q4	96	8.3311	9216	799.8
1974Q1	97	8.3234	9409	807.4
1974Q2	98	8.3261	9604	816.0
1974Q3	99	8.3150	9801	823.2
1974Q4	100	8.3094	10000	830.9
1975Q1	101	8.2965	10201	838.0
1975Q2	102	8.3053	10404	847.1
1975Q3	103	8.3225	10609	857.2
1975Q4	104	8.3350	10816	866.8
1976Q1	105	8.3585	11025	877.6
1976Q2	106	8.3667	11236	886.9
1976Q3	107	8.3715	11449	895.7
1976Q4	108	8.3796	11664	905.0
1977Q1	109	8.3917	11881	914.7
1977Q2	110	8.4096	12100	925.1
1977Q3	111	8.4274	12321	935.4
1977Q4	112	8.4286	12544	944.0
1978Q1	113	8.4314	12769	952.7
1978Q2	114	8.4692	12996	965.5
1978Q3	115	8.4788	13225	975.1
1978Q4	116	8.4921	13456	985.1
1979Q1	117	8.4946	13689	993.9
1979Q2	118	8.4952	13924	1002.4
1979Q3	119	8.5023	14161	1011.8
1979Q4	120	8.5056	14400	1020.7
1980Q1	121	8.5089	14641	1029.6
1980Q2	122	8.4883	14884	1035.6
1980Q3	123	8.4868	15129	1043.9
1980Q4	124	8.5044	15376	1054.5
1981Q1	125	8.5237	15625	1065.5
1981Q2	126	8.5167	15876	1073.1
1981Q3	127	8.5285	16129	1083.1
1981Q4	128	8.5166	16384	1090.1
1982Q1	129	8.4999	16641	1096.5
1982Q2	130	8.5042	16900	1105.5
1982Q3	131	8.4995	17161	1113.4
1982Q4	132	8.5002	17424	1122.0
1983Q1	133	8.5117	17689	1132.1
1983Q2	134	8.5350	17956	1143.7

3883.8	3773.3
3922.3	3796.5
3990.5	3819.8
4092.3	3843.3
4133.3	3866.9
4117	3890.7
4151.1	3914.6
4119.3	3938.7
4130.4	3962.9
4084.5	3987.3
4062	4011.8
4010	4036.4
4045.2	4061.3
4115.4	4086.2
4167.2	4111.3
4266.1	4136.6
4301.5	4162.0
4321.9	4187.6
4357.4	4213.4
4410.5	4239.3
4489.8	4265.3
4570.6	4291.6
4576.1	4317.9
4588.9	4344.5
4765.7	4371.2
4811.7	4398.1
4876	4425.1
4888.3	4452.3
4891.4	4479.7
4926.2	4507.2
4942.6	4534.9
4958.9	4562.8
4857.8	4590.8
4850.3	4619.1
4936.6	4647.5
5032.5	4676.0
4997.3	4704.8
5056.8	4733.7
4997.1	4762.8
4914.3	4792.1
4935.5	4821.5
4912.1	4851.2
4915.6	4881.0
4972.4	4911.0
5089.8	4941.2

1983Q3	135	8.5526	18225	1154.6
1983Q4	136	8.5730	18496	1165.9
1984Q1	137	8.5946	18769	1177.5
1984Q2	138	8.6114	19044	1188.4
1984Q3	139	8.6200	19321	1198.2
1984Q4	140	8.6275	19600	1207.8
1985Q1	141	8.6358	19881	1217.6
1985Q2	142	8.6436	20164	1227.4
1985Q3	143	8.6584	20449	1238.2
1985Q4	144	8.6666	20736	1248.0
1986Q1	145	8.6757	21025	1258.0
1986Q2	146	8.6799	21316	1267.3
1986Q3	147	8.6891	21609	1277.3
1986Q4	148	8.6944	21904	1286.8
1987Q1	149	8.7017	22201	1296.6
1987Q2	150	8.7123	22500	1306.8
1987Q3	151	8.7206	22801	1316.8
1987Q4	152	8.7378	23104	1328.2
1988Q1	153	8.7445	23409	1337.9
1988Q2	154	8.7562	23716	1348.5
1988Q3	155	8.7613	24025	1358.0
1988Q4	156	8.7742	24336	1368.8
1989Q1	157	8.7863	24649	1379.4
1989Q2	158	8.7917	24964	1389.1
1989Q3	159	8.7964	25281	1398.6
1989Q4	160	8.7999	25600	1408.0
1990Q1	161	8.8123	25921	1418.8
1990Q2	162	8.8146	26244	1428.0
1990Q3	163	8.8128	26569	1436.5
1990Q4	164	8.8045	26896	1443.9
1991Q1	165	8.7996	27225	1451.9
1991Q2	166	8.8052	27556	1461.7
1991Q3	167	8.8076	27889	1470.9
1991Q4	168	8.8130	28224	1480.6
1992Q1	169	8.8222	28561	1490.4
1992Q2	170	8.8315	28900	1501.4
1992Q3	171	8.8392	29241	1511.5
1992Q4	172	8.8523	29584	1522.6
1993Q1	173	8.8520	29929	1531.4
1993Q2	174	8.8581	30276	1541.3
1993Q3	175	8.8625	30625	1550.9
1993Q4	176	8.8775	30976	1562.4
1994Q1	177	8.8859	31329	1572.8
1994Q2	178	8.8998	31684	1584.2
1994Q3	179	8.9052	32041	1594.0

5180.4	4971.6
5286.8	5002.1
5402.3	5032.9
5493.8	5063.8
5541.3	5094.9
5583.1	5126.3
5629.7	5157.8
5673.8	5189.5
5758.6	5221.4
5806	5253.5
5858.9	5285.8
5883.3	5318.3
5937.9	5351.0
5969.5	5383.9
6013.3	5417.0
6077.2	5450.3
6128.1	5483.8
6234.4	5517.5
6275.9	5551.4
6349.8	5585.5
6382.3	5619.9
6465.2	5654.4
6543.8	5689.2
6579.4	5724.1
6610.6	5759.3
6633.5	5794.7
6716.3	5830.4
6731.7	5866.2
6719.4	5902.3
6664.2	5938.5
6631.4	5975.0
6668.5	6011.8
6684.9	6048.7
6720.9	6085.9
6783.3	6123.3
6846.8	6161.0
6899.7	6198.8
6990.6	6237.0
6988.7	6275.3
7031.2	6313.9
7062	6352.7
7168.7	6391.7
7229.4	6431.0
7330.2	6470.6
7370.2	6510.3

1994Q4	180	8.9175	32400	1605.1
1995Q1	181	8.9212	32761	1614.7
1995Q2	182	8.9231	33124	1624.0
1995Q3	183	8.9308	33489	1634.3
1995Q4	184	8.9388	33856	1644.7
1996Q1	185	8.9459	34225	1655.0
1996Q2	186	8.9623	34596	1667.0
1996Q3	187	8.9672	34969	1676.9
1996Q4	188	8.9786	35344	1688.0
1997Q1	189	8.9892	35721	1699.0
1997Q2	190	9.0035	36100	1710.7
1997Q3	191	9.0139	36481	1721.7
1997Q4	192	9.0207	36864	1732.0
1998Q1	193	9.0355	37249	1743.9
1998Q2	194	9.0411	37636	1754.0
1998Q3	195	9.0512	38025	1765.0
1998Q4	196	9.0674	38416	1777.2
1999Q1	197	9.0749	38809	1787.8
1999Q2	198	9.0792	39204	1797.7
1999Q3	199	9.0906	39601	1809.0
1999Q4	200	9.1105	40000	1822.1
2000Q1	201	9.1163	40401	1832.4
2000Q2	202	9.1301	40804	1844.3
2000Q3	203	9.1335	41209	1854.1
2000Q4	204	9.1382	41616	1864.2
sumace	20910	1695.711	2850730	178146.1174

7461.1	6550.4
7488.7	6590.6
7503.3	6631.1
7561.4	6671.9
7621.9	6712.9
7676.4	6754.2
7802.9	6795.7
7841.9	6837.5
7931.3	6879.5
8016.4	6921.8
8131.9	6964.4
8216.6	7007.2
8272.9	7050.3
8396.3	7093.6
8442.9	7137.2
8528.5	7181.1
8667.9	7225.2
8733.5	7269.6
8771.2	7314.3
8871.5	7359.3
9049.9	7404.5
9102.5	7450.1
9229.4	7495.9
9260.1	7541.9
9303.9	7588.3
930779.70	886228.07

$$X^T X = \begin{bmatrix} 204 & 20910 \\ 20910 & 2850730 \end{bmatrix}$$

$$\det(X^T X) = 1.44E+08$$

$$(X^T X)^{-1} = \begin{bmatrix} 0.019753 & -0.000145 \\ -0.000145 & 1.41352E-06 \end{bmatrix}$$

$$X^T y = \begin{bmatrix} 1695.711 \\ 178146.1 \end{bmatrix}$$

lnb1	7.684131	b1	2173.57972
lnb2	0.006129	b2	1.00615

$$THEIL_{\text{LovoU}} = 0.06352$$

rezidua	abs.rezidua	rezidua^2	MAPE	MAAPE
-576.4	576.44	332284.9122	0.3579	0.303595
-541.6	541.59	293314.9715	0.3265	0.280674
-490.9	490.91	240994.8552	0.2849	0.249389
-473.6	473.62	224317.8764	0.2700	0.237916
-467.7	467.72	218757.8454	0.2637	0.233001
-451.3	451.29	203665.5689	0.2502	0.222384
-429.1	429.06	184088.6847	0.2332	0.208854
-439.5	439.50	193163.0146	0.2384	0.213035
-432.1	432.14	186741.919	0.2317	0.207681
-444.8	444.76	197807.9358	0.2383	0.212947
-447.2	447.16	199954.2313	0.2381	0.212774
-399.3	399.26	159405.4612	0.2058	0.186583
-377.8	377.84	142761.3405	0.1912	0.174527
-376.1	376.11	141457.0087	0.1888	0.172506
-403.4	403.37	162704.6573	0.2038	0.18493
-449.7	449.72	202243.6694	0.2309	0.206988
-474.2	474.15	224821.6292	0.2446	0.217984
-486.1	486.08	236276.3817	0.2504	0.222561
-480.0	480.00	230402.8305	0.2446	0.217985
-456.1	456.11	208040.8271	0.2280	0.204632
-414.0	414.02	171411.8908	0.2012	0.182781
-396.3	396.32	157066.6153	0.1895	0.173128
-383.7	383.71	147230.9435	0.1811	0.166053
-387.9	387.89	150459.7239	0.1821	0.166904
-412.5	412.47	170131.907	0.1945	0.177236
-411.3	411.34	169204.5111	0.1924	0.175535
-429.4	429.41	184397.0428	0.2011	0.182729
-410.1	410.08	168166.5135	0.1889	0.172634
-413.6	413.64	171101.6618	0.1895	0.173108
-434.6	434.61	188881.6316	0.1996	0.181463
-429.5	429.46	184439.3617	0.1953	0.177933
-468.5	468.52	219512.5422	0.2153	0.194386
-543.4	543.38	295260.3025	0.2566	0.227442
-547.4	547.44	299685.6059	0.2570	0.227774
-516.1	516.09	266351.8967	0.2370	0.2119
-483.7	483.65	233918.792	0.2172	0.195943
-453.8	453.81	205945.255	0.1997	0.181532
-411.2	411.17	169064.6593	0.1763	0.162008
-429.0	429.04	184075.8309	0.1840	0.168521
-438.3	438.31	192115.7767	0.1874	0.171332
-403.5	403.48	162799.3385	0.1688	0.155621
-432.5	432.46	187024.0932	0.1818	0.166625
-445.3	445.35	198334.1736	0.1868	0.170875
-493.4	493.44	243480.9935	0.2097	0.189812

$y_t^2$	$yV_t^2$
2593710.25	4782713.54
2751617.44	4841696.83
2968729.00	4901407.53
3076165.21	4961854.63
3145302.25	5023047.19
3253333.69	5084994.41
3384864.04	5147705.61
3397754.89	5211190.20
3477106.09	5275457.72
3482702.44	5340517.82
3526884.00	5406380.29
3764376.04	5473055.01
3904576.00	5540552.00
3968860.84	5608881.40
3918420.25	5678053.49
3793924.84	5748078.65
3756231.61	5818967.39
3767481.00	5890730.38
3849444.00	5963378.40
4003600.81	6036922.35
4235775.61	6111373.30
4372281.00	6186742.41
4489737.21	6263041.02
4537326.01	6340280.60
4498641.00	6418472.74
4569761.29	6497629.19
4559506.09	6577761.84
4710636.16	6658882.74
4764179.29	6741004.07
4742377.29	6824138.17
4835161.21	6908297.53
4734976.00	6993494.79
4483382.76	7079742.76
4535622.09	7167054.38
4741506.25	7255442.79
4957302.25	7344921.26
5166529.00	7435503.22
5440089.76	7527202.30
5435425.96	7620032.27
5471388.81	7714007.07
5716881.00	7809140.83
5660592.64	7905447.83
5681548.96	8002942.55
5536138.41	8101639.63

-497.3	497.34	247342.6219	0.2102	0.190173
-470.6	470.64	221502.6467	0.1952	0.177861
-448.8	448.75	201380.2039	0.1831	0.167773
-416.6	416.58	173535.8379	0.1666	0.153793
-390.9	390.91	152809.1907	0.1537	0.142696
-381.5	381.45	145504.2766	0.1483	0.138095
-374.3	374.30	140102.8906	0.1441	0.13445
-386.1	386.07	149048.3299	0.1483	0.138062
-373.6	373.64	139610.3102	0.1418	0.132455
-357.8	357.83	128045.4956	0.1341	0.125674
-325.2	325.24	105779.717	0.1196	0.112843
-324.2	324.16	105076.9752	0.1183	0.111721
-281.9	281.89	79461.24153	0.1007	0.095833
-267.5	267.54	71576.25683	0.0944	0.090154
-248.4	248.40	61703.83567	0.0865	0.082906
-260.1	260.08	67644.17785	0.0903	0.08642
-208.8	208.79	43591.2769	0.0708	0.068353
-188.4	188.40	35496.13708	0.0630	0.061089
-147.1	147.14	21650.91701	0.0482	0.047097
-93.9	93.90	8817.385811	0.0301	0.029617
-36.2	36.18	1309.007945	0.0113	0.011239
-44.0	43.98	1934.335814	0.0137	0.013595
-43.6	43.60	1901.334395	0.0135	0.013394
-35.6	35.55	1263.844638	0.0109	0.01084
-25.8	25.82	666.7105848	0.0078	0.007813
-48.3	48.32	2334.387057	0.0147	0.01458
-45.0	45.04	2028.207553	0.0136	0.0135
-40.9	40.88	1671.329853	0.0122	0.012172
6.2	6.24	38.99879853	0.0018	0.001835
43.9	43.94	1931.075457	0.0127	0.012764
47.3	47.31	2238.673193	0.0136	0.013653
41.1	41.06	1685.591744	0.0117	0.011786
74.0	73.97	5471.150716	0.0208	0.021006
61.8	61.85	3825.128779	0.0173	0.017488
61.0	61.00	3720.554558	0.0170	0.017144
22.4	22.41	502.3240807	0.0063	0.006295
-4.3	4.30	18.52848324	0.0012	0.001206
-18.9	18.86	355.5355661	0.0053	0.005262
-9.6	9.64	92.9637643	0.0027	0.002671
-70.6	70.56	4979.23085	0.0198	0.019591
6.7	6.68	44.59347266	0.0018	0.001823
4.3	4.28	18.33455926	0.0012	0.001162
9.9	9.95	98.95571241	0.0027	0.002682
-3.5	3.53	12.43078604	0.0009	0.000946
46.7	46.66	2177.23868	0.0123	0.012365

5600322.25	8201553.90
5811956.64	8302700.37
6004460.16	8405094.25
6252000.16	8508750.90
6471936.00	8613685.92
6612612.25	8719915.05
6743370.24	8827454.26
6777170.89	8936319.72
6938482.81	9046527.76
7120358.56	9158094.96
7396224.16	9271038.08
7504312.36	9385374.07
7842800.25	9501120.12
8030422.44	9618293.63
8248384.00	9736912.18
8291520.25	9856993.62
8703090.01	9978555.97
8939502.01	10101617.49
9306770.49	10226196.69
9756876.96	10352312.27
10247041.21	10479983.19
10324654.24	10609228.62
10456168.96	10740067.98
10639339.24	10872520.93
10835947.24	11006607.37
10822126.09	11142347.44
10979282.25	11279761.55
11144246.89	11418870.32
11602198.44	11559694.67
12004839.04	11702255.75
12174516.64	11846574.97
12278716.81	11992674.03
12661498.89	12140574.87
12727769.76	12290299.71
12875896.89	12441871.05
12754897.96	12595311.65
12719922.25	12750644.58
12772761.21	12907893.17
12997467.04	13067081.04
12719922.25	13228232.10
13440289.21	13391370.59
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13797510.25	13723708.12
13866686.44	13892957.11
14416449.61	14064293.38

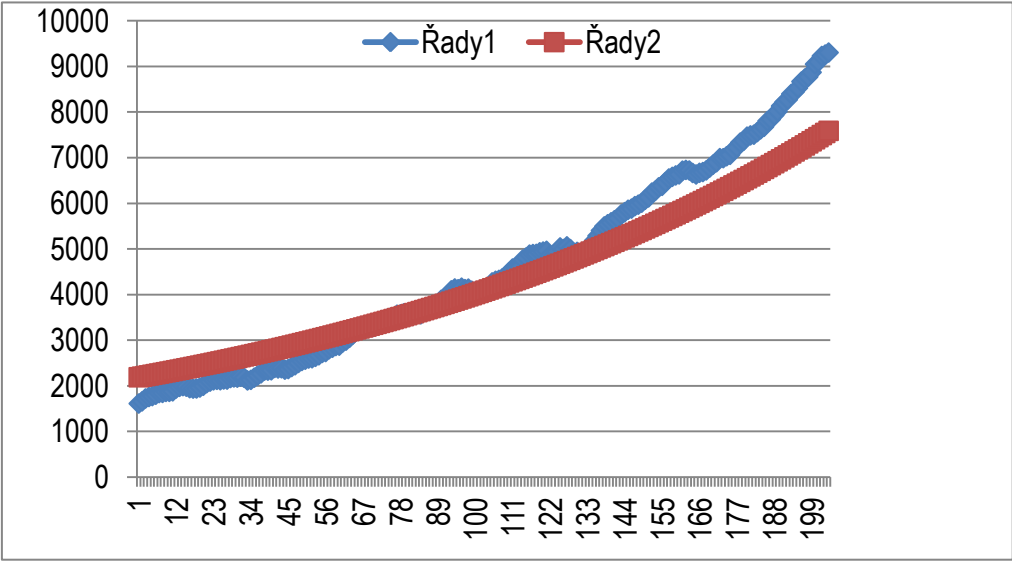
110.5	110.51	12211.72074	0.0285	0.028864	15083902.44	14237742.67
125.8	125.81	15828.3311	0.0321	0.032599	15384437.29	14413331.04
170.7	170.67	29128.97981	0.0428	0.043704	15924090.25	14591084.87
249.0	248.99	61996.07766	0.0608	0.062753	16746919.29	14771030.87
266.4	266.36	70949.64005	0.0644	0.066589	17084168.89	14953196.07
226.3	226.29	51208.12188	0.0550	0.056519	16949689.00	15137607.84
236.5	236.47	55920.12407	0.0570	0.058637	17231631.21	15324293.88
180.6	180.61	32619.81909	0.0438	0.044827	16968632.49	15513282.25
167.5	167.50	28055.19626	0.0406	0.041391	17060204.16	15704601.34
97.2	97.24	9454.701069	0.0238	0.024093	16683140.25	15898279.89
50.2	50.22	2522.446102	0.0124	0.012441	16499844.00	16094347.00
-26.4	26.44	698.9704521	0.0066	0.006571	16080100.00	16292832.13
-16.1	16.05	257.6559628	0.0040	0.00396	16363643.04	16493765.09
29.2	29.18	851.5995801	0.0071	0.007116	16936517.16	16697176.08
55.9	55.86	3120.624122	0.0134	0.013496	17365555.84	16903095.66
129.5	129.49	16767.26999	0.0304	0.030821	18199609.21	17111554.75
139.5	139.46	19448.83244	0.0324	0.032955	18502902.25	17322584.70
134.3	134.27	18029.32529	0.0311	0.031558	18678819.61	17536217.19
144.0	144.03	20744.72426	0.0331	0.03361	18986934.76	17752484.32
171.2	171.23	29319.37142	0.0388	0.039592	19452510.25	17971418.59
224.5	224.47	50386.10329	0.0500	0.051277	20158304.04	18193052.88
279.0	279.05	77867.66014	0.0611	0.062975	20890384.36	18417420.51
258.2	258.17	66649.61534	0.0564	0.058054	20940691.21	18644555.17
244.4	244.42	59742.00732	0.0533	0.054721	21058003.21	18874490.99
394.5	394.51	155641.705	0.0828	0.086356	22711896.49	19107262.52
413.6	413.64	171100.5929	0.0860	0.089827	23152456.89	19342904.72
450.9	450.91	203316.6183	0.0925	0.096958	23775376.00	19581453.01
436.0	436.00	190099.1411	0.0892	0.093357	23895476.89	19822943.21
411.7	411.73	169524.5052	0.0842	0.087873	23925793.96	20067411.62
419.0	419.00	175556.9914	0.0851	0.088832	24267446.44	20314894.96
407.7	407.69	166209.1848	0.0825	0.086033	24429294.76	20565430.41
396.1	396.11	156902.8687	0.0799	0.083202	24590689.21	20819055.62
267.0	266.96	71267.82913	0.0550	0.056508	23598220.84	21075808.68
231.2	231.24	53471.29218	0.0477	0.048839	23525410.09	21335728.18
289.1	289.14	83603.88677	0.0586	0.060338	24370019.56	21598853.15
356.5	356.47	127073.4081	0.0708	0.073435	25326056.25	21865223.15
292.5	292.53	85572.71767	0.0585	0.060302	24973007.29	22134878.17
323.1	323.11	104397.4965	0.0639	0.066004	25571226.24	22407858.75
234.3	234.31	54899.34112	0.0469	0.048014	24971008.41	22684205.88
122.2	122.23	14939.50433	0.0249	0.025185	24150344.49	22963961.10
114.0	113.97	12988.80923	0.0231	0.023361	24359160.25	23247166.42
60.9	60.93	3712.288698	0.0124	0.012481	24128726.41	23533864.40
34.6	34.61	1197.60586	0.0070	0.007065	24163123.36	23824098.11
61.4	61.40	3770.083086	0.0123	0.012425	24724761.76	24117911.16
148.6	148.61	22085.261	0.0292	0.02963	25906064.04	24415347.68

208.8	208.84	43612.31676	0.0403	0.041142	26836544.16	24716452.37
284.7	284.67	81038.94797	0.0538	0.055336	27950254.24	25021270.46
369.4	369.42	136473.5834	0.0684	0.070803	29184845.29	25329847.76
430.0	429.98	184886.3992	0.0783	0.081455	30181838.44	25642230.61
446.4	446.35	199232.6631	0.0806	0.083931	30706005.69	25958465.96
456.8	456.83	208697.4637	0.0818	0.085315	31171005.61	26278601.31
471.9	471.92	222709.3806	0.0838	0.087494	31693522.09	26602684.76
484.3	484.31	234560.0457	0.0854	0.089165	32192006.44	26930765.00
537.2	537.21	288596.8694	0.0933	0.097853	33161473.96	27262891.32
552.5	552.51	305271.8809	0.0952	0.099917	33709636.00	27599113.62
573.1	573.12	328465.21	0.0978	0.102851	34326709.21	27939482.42
565.0	565.03	319253.2636	0.0960	0.100883	34613218.89	28284048.85
586.9	586.93	344488.4984	0.0988	0.103984	35258656.41	28632864.68
585.6	585.64	342970.5308	0.0981	0.103165	35634930.25	28985982.32
596.3	596.34	355621.4867	0.0992	0.104344	36159776.89	29343454.81
626.9	626.94	393053.5559	0.1032	0.108773	36932359.84	29705335.87
644.3	644.33	415167.4406	0.1051	0.110979	37553609.61	30071679.87
716.9	716.92	513979.9669	0.1150	0.12201	38867743.36	30442541.83
724.5	724.51	524908.6637	0.1154	0.122514	39386920.81	30817977.49
764.3	764.28	584122.608	0.1204	0.12807	40319960.04	31198043.25
762.4	762.44	581318.8533	0.1195	0.127051	40733753.29	31582796.20
810.8	810.80	657388.7821	0.1254	0.133799	41798811.04	31972294.16
854.6	854.64	730401.3974	0.1306	0.139727	42821318.44	32366595.64
855.3	855.26	731472.4851	0.1300	0.139027	43288504.36	32765759.88
851.3	851.27	724665.8145	0.1288	0.137636	43700032.36	33169846.86
838.8	838.77	703532.0006	0.1264	0.134978	44003322.25	33578917.27
885.9	885.95	784899.5812	0.1319	0.141224	45108685.69	33993032.59
865.5	865.50	749097.2448	0.1286	0.137405	45315784.89	34412255.03
817.1	817.14	667721.3152	0.1216	0.129483	45150336.36	34836647.57
725.7	725.66	526580.4022	0.1089	0.115159	44411561.64	35266273.97
656.4	656.35	430797.9279	0.0990	0.10413	43975465.96	35701198.78
656.7	656.72	431282.4057	0.0985	0.103581	44468892.25	36141487.35
636.2	636.16	404704.78	0.0952	0.099919	44687888.01	36587205.82
635.0	634.98	403199.7145	0.0945	0.099163	45170496.81	37038421.15
660.0	659.97	435557.0752	0.0973	0.102268	46013158.89	37495201.15
685.8	685.82	470355.7668	0.1002	0.105448	46878670.24	37957614.42
700.9	700.85	491191.951	0.1016	0.107012	47605860.09	38425730.46
753.6	753.64	567979.3473	0.1078	0.113951	48868488.36	38899619.58
713.4	713.40	508943.7782	0.1021	0.10757	48841927.69	39379352.99
717.3	717.33	514556.833	0.1020	0.107504	49437773.44	39865002.75
709.3	709.31	503123.8466	0.1004	0.105752	49871844.00	40356641.84
777.0	776.96	603666.3686	0.1084	0.114592	51390259.69	40854344.12
798.4	798.37	637390.0018	0.1104	0.116888	52264224.36	41358184.36
859.6	859.63	738968.7676	0.1173	0.124578	53731832.04	41868238.26
859.9	859.86	739351.8851	0.1167	0.123894	54319848.04	42384582.45



910.7	910.73	829436.4507	0.1221	0.129998
898.1	898.07	806523.026	0.1199	0.127572
872.2	872.15	760647.3339	0.1162	0.123408
889.5	889.49	791186.4614	0.1176	0.124987
909.0	908.97	826229.5149	0.1193	0.12682
922.2	922.20	850461.3176	0.1201	0.127812
1007.2	1007.18	1014419.262	0.1291	0.137983
1004.4	1004.41	1008835.056	0.1281	0.136846
1051.8	1051.77	1106230.62	0.1326	0.142028
1094.6	1094.58	1198113.618	0.1365	0.146548
1167.5	1167.53	1363132.285	0.1436	0.154678
1209.4	1209.42	1462696.207	0.1472	0.158886
1222.6	1222.64	1494857.892	0.1478	0.159581
1302.7	1302.70	1697035.205	0.1552	0.1682
1305.7	1305.70	1704841.602	0.1547	0.167611
1347.4	1347.42	1815542.144	0.1580	0.171541
1442.7	1442.68	2081312.754	0.1664	0.181547
1463.9	1463.86	2142883.697	0.1676	0.182946
1456.9	1456.87	2122469.494	0.1661	0.18114
1512.2	1512.21	2286765.821	0.1705	0.186338
1645.4	1645.37	2707226.173	0.1818	0.19999
1652.4	1652.45	2730579.068	0.1815	0.199661
1733.5	1733.55	3005188.315	0.1878	0.207297
1718.2	1718.17	2952100.814	0.1855	0.204519
1715.6	1715.60	2943299.008	0.1844	0.203124
<b>44551.6251</b> <b>(SE)</b>	<b>97747.096</b> <b>SAE</b>	<b>76471649.17</b> <b>SSE</b>	<b>22.8316</b>	<b>22.31603</b>
<b>218.3903</b> <b>ME</b>	<b>479.152</b> <b>MAE</b>	<b>374861.025</b> <b>MSE</b>	<b>11.192</b> <b>MAPE</b>	<b>10.939</b> <b>AMAPE</b>
		<b>612.259</b> <b>RMSE</b>		

55668013.21	42907294.50
56080627.69	43436452.96
56299510.89	43972137.31
57174769.96	44514428.04
58093359.61	45063406.63
58927116.96	45619155.55
60885248.41	46181758.30
61495395.61	46751299.40
62905519.69	47327864.43
64262668.96	47911540.00
66127797.61	48502413.80
67512515.56	49100574.62
68440874.41	49706112.31
70497853.69	50319117.86
71282560.41	50939683.36
72735312.25	51567902.04
75132490.41	52203868.29
76274022.25	52847677.66
76933949.44	53499426.88
78703512.25	54159213.85
81900690.01	54827137.71
82855506.25	55503298.81
85181824.36	56187798.73
85749452.01	56880740.32
86562555.21	57582227.68
<b>5153991741</b>	<b>4338878853</b>



čtvrtletí	pořadí	$y_t = \text{GDPUSA}$	$\ln(y_t)$	$\ln(t)$	$\ln^2(t)$	$\ln(t) \cdot \ln(y_t)$
1950Q1	1	1610.5	7.38430	0.00000	0.00000	0.00000
1950Q2	2	1658.8	7.41385	0.69315	0.48045	5.13889
1950Q3	3	1723	7.45182	1.09861	1.20695	8.18666
1950Q4	4	1753.9	7.46960	1.38629	1.92181	10.35506
1951Q1	5	1773.5	7.48071	1.60944	2.59029	12.03974
1951Q2	6	1803.7	7.49760	1.79176	3.21040	13.43389
1951Q3	7	1839.8	7.51741	1.94591	3.78657	14.62821
1951Q4	8	1843.3	7.51931	2.07944	4.32408	15.63597
1952Q1	9	1864.7	7.53086	2.19722	4.82780	16.54698
1952Q2	10	1866.2	7.53166	2.30259	5.30190	17.34229
1952Q3	11	1878	7.53796	2.39790	5.74990	18.07525
1952Q4	12	1940.2	7.57055	2.48491	6.17476	18.81210
1953Q1	13	1976	7.58883	2.56495	6.57897	19.46496
1953Q2	14	1992.2	7.59699	2.63906	6.96462	20.04890
1953Q3	15	1979.5	7.59060	2.70805	7.33354	20.55572
1953Q4	16	1947.8	7.57446	2.77259	7.68725	21.00085
1954Q1	17	1938.1	7.56946	2.83321	8.02710	21.44590
1954Q2	18	1941	7.57096	2.89037	8.35425	21.88288
1954Q3	19	1962	7.58172	2.94444	8.66972	22.32391
1954Q4	20	2000.9	7.60135	2.99573	8.97441	22.77162
1955Q1	21	2058.1	7.62954	3.04452	9.26912	23.22830
1955Q2	22	2091	7.64540	3.09104	9.55454	23.63225
1955Q3	23	2118.9	7.65865	3.13549	9.83132	24.01366
1955Q4	24	2130.1	7.66392	3.17805	10.10003	24.35636
1956Q1	25	2121	7.65964	3.21888	10.36116	24.65544
1956Q2	26	2137.7	7.66749	3.25810	10.61519	24.98141
1956Q3	27	2135.3	7.66636	3.29584	10.86254	25.26708
1956Q4	28	2170.4	7.68267	3.33220	11.10359	25.60022
1957Q1	29	2182.7	7.68832	3.36730	11.33868	25.88884
1957Q2	30	2177.7	7.68602	3.40120	11.56814	26.14169
1957Q3	31	2198.9	7.69571	3.43399	11.79227	26.42698
1957Q4	32	2176	7.68524	3.46574	12.01133	26.63502
1958Q1	33	2117.4	7.65794	3.49651	12.22557	26.77606
1958Q2	34	2129.7	7.66374	3.52636	12.43522	27.02510
1958Q3	35	2177.5	7.68593	3.55535	12.64050	27.32617
1958Q4	36	2226.5	7.70819	3.58352	12.84161	27.62243
1959Q1	37	2273	7.72886	3.61092	13.03873	27.90826
1959Q2	38	2332.4	7.75465	3.63759	13.23203	28.20822
1959Q3	39	2331.4	7.75422	3.66356	13.42168	28.40808
1959Q4	40	2339.1	7.75752	3.68888	13.60783	28.61656
1960Q1	41	2391	7.77947	3.71357	13.79062	28.88961
1960Q2	42	2379.2	7.77452	3.73767	13.97017	29.05859
1960Q3	43	2383.6	7.77637	3.76120	14.14663	29.24847
1960Q4	44	2352.9	7.76340	3.78419	14.32009	29.37819

1961Q1	45	2366.5	7.76917	3.80666	14.49068	29.57460
1961Q2	46	2410.8	7.78771	3.82864	14.65849	29.81636
1961Q3	47	2450.4	7.80401	3.85015	14.82364	30.04658
1961Q4	48	2500.4	7.82421	3.87120	14.98620	30.28907
1962Q1	49	2544	7.84149	3.89182	15.14627	30.51768
1962Q2	50	2571.5	7.85224	3.91202	15.30392	30.71816
1962Q3	51	2596.8	7.86204	3.93183	15.45925	30.91215
1962Q4	52	2603.3	7.86454	3.95124	15.61233	31.07470
1963Q1	53	2634.1	7.87630	3.97029	15.76322	31.27120
1963Q2	54	2668.4	7.88923	3.98898	15.91199	31.47003
1963Q3	55	2719.6	7.90824	4.00733	16.05872	31.69095
1963Q4	56	2739.4	7.91549	4.02535	16.20346	31.86265
1964Q1	57	2800.5	7.93755	4.04305	16.34626	32.09193
1964Q2	58	2833.8	7.94937	4.06044	16.48720	32.27798
1964Q3	59	2872	7.96276	4.07754	16.62631	32.46847
1964Q4	60	2879.5	7.96537	4.09434	16.76366	32.61298
1965Q1	61	2950.1	7.98959	4.11087	16.89928	32.84421
1965Q2	62	2989.9	8.00300	4.12713	17.03324	33.02944
1965Q3	63	3050.7	8.02313	4.14313	17.16557	33.24089
1965Q4	64	3123.6	8.04674	4.15888	17.29631	33.46546
1966Q1	65	3201.1	8.07125	4.17439	17.42551	33.69252
1966Q2	66	3213.2	8.07502	4.18965	17.55321	33.83156
1966Q3	67	3233.6	8.08135	4.20469	17.67944	33.97960
1966Q4	68	3261.8	8.09003	4.21951	17.80425	34.13596
1967Q1	69	3291.8	8.09919	4.23411	17.92766	34.29283
1967Q2	70	3289.7	8.09855	4.24850	18.04971	34.40666
1967Q3	71	3313.5	8.10576	4.26268	18.17044	34.55226
1967Q4	72	3338.3	8.11322	4.27667	18.28987	34.69752
1968Q1	73	3406.2	8.13335	4.29046	18.40804	34.89582
1968Q2	74	3464.8	8.15041	4.30407	18.52498	35.07990
1968Q3	75	3489.2	8.15743	4.31749	18.64070	35.21960
1968Q4	76	3504.1	8.16169	4.33073	18.75525	35.34610
1969Q1	77	3558.3	8.17704	4.34381	18.86865	35.51946
1969Q2	78	3567.6	8.17965	4.35671	18.98091	35.63635
1969Q3	79	3588.3	8.18543	4.36945	19.09207	35.76583
1969Q4	80	3571.4	8.18071	4.38203	19.20216	35.84810
1970Q1	81	3566.5	8.17934	4.39445	19.31118	35.94369
1970Q2	82	3573.9	8.18141	4.40672	19.41917	36.05319
1970Q3	83	3605.2	8.19013	4.41884	19.52615	36.19089
1970Q4	84	3566.5	8.17934	4.43082	19.63214	36.24116
1971Q1	85	3666.1	8.20688	4.44265	19.73715	36.46032
1971Q2	86	3686.2	8.21235	4.45435	19.84121	36.58067
1971Q3	87	3714.5	8.22000	4.46591	19.94434	36.70976
1971Q4	88	3723.8	8.22250	4.47734	20.04654	36.81490
1972Q1	89	3796.9	8.24194	4.48864	20.14786	36.99507

1972Q2	90	3883.8	8.26457	4.49981	20.24829	37.18899
1972Q3	91	3922.3	8.27443	4.51086	20.34785	37.32481
1972Q4	92	3990.5	8.29167	4.52179	20.44657	37.49319
1973Q1	93	4092.3	8.31686	4.53260	20.54446	37.69701
1973Q2	94	4133.3	8.32683	4.54329	20.64153	37.83125
1973Q3	95	4117	8.32288	4.55388	20.73779	37.90137
1973Q4	96	4151.1	8.33113	4.56435	20.83327	38.02617
1974Q1	97	4119.3	8.32344	4.57471	20.92798	38.07733
1974Q2	98	4130.4	8.32613	4.58497	21.02193	38.17503
1974Q3	99	4084.5	8.31495	4.59512	21.11513	38.20821
1974Q4	100	4062	8.30943	4.60517	21.20759	38.26634
1975Q1	101	4010	8.29655	4.61512	21.29934	38.28956
1975Q2	102	4045.2	8.30529	4.62497	21.39037	38.41172
1975Q3	103	4115.4	8.32249	4.63473	21.48071	38.57249
1975Q4	104	4167.2	8.33500	4.64439	21.57037	38.71100
1976Q1	105	4266.1	8.35846	4.65396	21.65935	38.89992
1976Q2	106	4301.5	8.36672	4.66344	21.74766	39.01768
1976Q3	107	4321.9	8.37145	4.67283	21.83533	39.11835
1976Q4	108	4357.4	8.37963	4.68213	21.92235	39.23453
1977Q1	109	4410.5	8.39174	4.69135	22.00874	39.36859
1977Q2	110	4489.8	8.40956	4.70048	22.09452	39.52899
1977Q3	111	4570.6	8.42740	4.70953	22.17967	39.68909
1977Q4	112	4576.1	8.42860	4.71850	22.26423	39.77035
1978Q1	113	4588.9	8.43140	4.72739	22.34820	39.85848
1978Q2	114	4765.7	8.46920	4.73620	22.43158	40.11181
1978Q3	115	4811.7	8.47881	4.74493	22.51438	40.23136
1978Q4	116	4876	8.49208	4.75359	22.59662	40.36787
1979Q1	117	4888.3	8.49460	4.76217	22.67830	40.45276
1979Q2	118	4891.4	8.49523	4.77068	22.75943	40.52808
1979Q3	119	4926.2	8.50232	4.77912	22.84002	40.63365
1979Q4	120	4942.6	8.50565	4.78749	22.92008	40.72071
1980Q1	121	4958.9	8.50894	4.79579	22.99961	40.80709
1980Q2	122	4857.8	8.48834	4.80402	23.07862	40.77817
1980Q3	123	4850.3	8.48680	4.81218	23.15712	40.84003
1980Q4	124	4936.6	8.50443	4.82028	23.23511	40.99376
1981Q1	125	5032.5	8.52367	4.82831	23.31261	41.15496
1981Q2	126	4997.3	8.51665	4.83628	23.38962	41.18894
1981Q3	127	5056.8	8.52849	4.84419	23.46615	41.31360
1981Q4	128	4997.1	8.51661	4.85203	23.54220	41.32286
1982Q1	129	4914.3	8.49990	4.85981	23.61778	41.30794
1982Q2	130	4935.5	8.50421	4.86753	23.69289	41.39453
1982Q3	131	4912.1	8.49946	4.87520	23.76755	41.43653
1982Q4	132	4915.6	8.50017	4.88280	23.84175	41.50464
1983Q1	133	4972.4	8.51166	4.89035	23.91551	41.62498
1983Q2	134	5089.8	8.53499	4.89784	23.98883	41.80303

1983Q3	135	5180.4	8.55264	4.90527	24.06172	41.95304
1983Q4	136	5286.8	8.57297	4.91265	24.13418	42.11604
1984Q1	137	5402.3	8.59458	4.91998	24.20621	42.28517
1984Q2	138	5493.8	8.61138	4.92725	24.27783	42.43043
1984Q3	139	5541.3	8.61998	4.93447	24.34903	42.53509
1984Q4	140	5583.1	8.62750	4.94164	24.41983	42.63402
1985Q1	141	5629.7	8.63581	4.94876	24.49022	42.73656
1985Q2	142	5673.8	8.64361	4.95583	24.56022	42.83626
1985Q3	143	5758.6	8.65845	4.96284	24.62983	42.97054
1985Q4	144	5806	8.66665	4.96981	24.69904	43.07162
1986Q1	145	5858.9	8.67572	4.97673	24.76788	43.17673
1986Q2	146	5883.3	8.67987	4.98361	24.83633	43.25707
1986Q3	147	5937.9	8.68911	4.99043	24.90442	43.36242
1986Q4	148	5969.5	8.69442	4.99721	24.97213	43.44785
1987Q1	149	6013.3	8.70173	5.00395	25.03948	43.54298
1987Q2	150	6077.2	8.71230	5.01064	25.10647	43.65415
1987Q3	151	6128.1	8.72064	5.01728	25.17310	43.75389
1987Q4	152	6234.4	8.73784	5.02388	25.23938	43.89785
1988Q1	153	6275.9	8.74447	5.03044	25.30531	43.98852
1988Q2	154	6349.8	8.75618	5.03695	25.37089	44.10446
1988Q3	155	6382.3	8.76128	5.04343	25.43614	44.18688
1988Q4	156	6465.2	8.77419	5.04986	25.50105	44.30839
1989Q1	157	6543.8	8.78627	5.05625	25.56562	44.42556
1989Q2	158	6579.4	8.79170	5.06260	25.62987	44.50881
1989Q3	159	6610.6	8.79643	5.06890	25.69379	44.58826
1989Q4	160	6633.5	8.79989	5.07517	25.75739	44.66096
1990Q1	161	6716.3	8.81229	5.08140	25.82067	44.77882
1990Q2	162	6731.7	8.81458	5.08760	25.88364	44.84504
1990Q3	163	6719.4	8.81275	5.09375	25.94629	44.88997
1990Q4	164	6664.2	8.80451	5.09987	26.00864	44.90180
1991Q1	165	6631.4	8.79957	5.10595	26.07068	44.93013
1991Q2	166	6668.5	8.80515	5.11199	26.13242	45.01182
1991Q3	167	6684.9	8.80761	5.11799	26.19386	45.07728
1991Q4	168	6720.9	8.81298	5.12396	26.25501	45.15738
1992Q1	169	6783.3	8.82222	5.12990	26.31586	45.25709
1992Q2	170	6846.8	8.83154	5.13580	26.37643	45.35699
1992Q3	171	6899.7	8.83923	5.14166	26.43670	45.44836
1992Q4	172	6990.6	8.85232	5.14749	26.49670	45.56728
1993Q1	173	6988.7	8.85205	5.15329	26.55641	45.61719
1993Q2	174	7031.2	8.85811	5.15906	26.61585	45.69949
1993Q3	175	7062	8.86248	5.16479	26.67501	45.77283
1993Q4	176	7168.7	8.87748	5.17048	26.73390	45.90087
1994Q1	177	7229.4	8.88591	5.17615	26.79253	45.99481
1994Q2	178	7330.2	8.89976	5.18178	26.85088	46.11662
1994Q3	179	7370.2	8.90520	5.18739	26.90897	46.19471

1994Q4	180	7461.1	8.91746	5.19296	26.96680	46.30798
1995Q1	181	7488.7	8.92115	5.19850	27.02437	46.37657
1995Q2	182	7503.3	8.92310	5.20401	27.08169	46.43586
1995Q3	183	7561.4	8.93081	5.20949	27.13875	46.52494
1995Q4	184	7621.9	8.93878	5.21494	27.19555	46.61517
1996Q1	185	7676.4	8.94591	5.22036	27.25211	46.70081
1996Q2	186	7802.9	8.96225	5.22575	27.30843	46.83445
1996Q3	187	7841.9	8.96724	5.23111	27.36450	46.90859
1996Q4	188	7931.3	8.97857	5.23644	27.42032	47.01577
1997Q1	189	8016.4	8.98924	5.24175	27.47591	47.11935
1997Q2	190	8131.9	9.00355	5.24702	27.53126	47.24184
1997Q3	191	8216.6	9.01391	5.25227	27.58638	47.34353
1997Q4	192	8272.9	9.02074	5.25750	27.64126	47.42650
1998Q1	193	8396.3	9.03555	5.26269	27.69591	47.55128
1998Q2	194	8442.9	9.04108	5.26786	27.75033	47.62713
1998Q3	195	8528.5	9.05117	5.27300	27.80452	47.72681
1998Q4	196	8667.9	9.06738	5.27811	27.85849	47.85868
1999Q1	197	8733.5	9.07492	5.28320	27.91224	47.94466
1999Q2	198	8771.2	9.07923	5.28827	27.96577	48.01339
1999Q3	199	8871.5	9.09060	5.29330	28.01908	48.11931
1999Q4	200	9049.9	9.11051	5.29832	28.07217	48.27037
2000Q1	201	9102.5	9.11630	5.30330	28.12504	48.34654
2000Q2	202	9229.4	9.13015	5.30827	28.17771	48.46528
2000Q3	203	9260.1	9.13347	5.31321	28.23016	48.52801
2000Q4	204	9303.9	9.13819	5.31812	28.28240	48.59799
sumace	20910	930779.7	1695.711401	884.4748858	4019.95589	7437.1786

$$X^T X = \begin{bmatrix} 204.0000 & 884.4749 \\ 884.4749 & 4019.9559 \end{bmatrix}$$

$$\det(X^T X) = 37775.17717$$

$$(X^T X)^{-1} = \begin{bmatrix} 0.106417923 & -0.02341418 \\ -0.02341418 & 0.005400372 \end{bmatrix}$$

$$X^T y = \begin{bmatrix} 1695.711401 \\ 7437.178601 \end{bmatrix}$$

$$\begin{bmatrix} b_0 \\ b_1 \end{bmatrix} = \begin{bmatrix} 6.318629119 \\ 0.459833363 \end{bmatrix} \quad \exp(b_1) = 554.8118897$$

skutečnost	vyrovnání	rezidua	abs.rezidua	rezidua^2	MAPE	AMAPE
1610.5	554.8	1055.7	1056	1114477	0.6555	0.975091
1658.8	763.1	895.7	896	802316	0.5400	0.739691
1723	919.5	803.5	804	645645	0.4663	0.608157
1753.9	1049.5	704.4	704	496143	0.4016	0.50251
1773.5	1162.9	610.6	611	372789	0.3443	0.415854
1803.7	1264.6	539.1	539	290590	0.2989	0.351372
1839.8	1357.5	482.3	482	232583	0.2621	0.301669
1843.3	1443.5	399.8	400	159840	0.2169	0.243276
1864.7	1523.8	340.9	341	116188	0.1828	0.201186
1866.2	1599.5	266.7	267	71139	0.1429	0.15392
1878	1671.1	206.9	207	42791	0.1101	0.116569
1940.2	1739.4	200.8	201	40337	0.1035	0.109166
1976	1804.6	171.4	171	29388	0.0868	0.090689
1992.2	1867.1	125.1	125	15643	0.0628	0.064816
1979.5	1927.3	52.2	52	2724	0.0264	0.026717
1947.8	1985.4	-37.6	38	1411	0.0193	0.019102
1938.1	2041.5	-103.4	103	10689	0.0533	0.05196
1941	2095.9	-154.9	155	23981	0.0798	0.076722
1962	2148.6	-186.6	187	34826	0.0951	0.090798
2000.9	2199.9	-199.0	199	39601	0.0995	0.094743
2058.1	2249.8	-191.7	192	36754	0.0932	0.089005
2091	2298.5	-207.5	207	43039	0.0992	0.094525
2118.9	2345.9	-227.0	227	51539	0.1071	0.101694
2130.1	2392.3	-262.2	262	68741	0.1231	0.11595
2121	2437.6	-316.6	317	100245	0.1493	0.138909
2137.7	2482.0	-344.3	344	118526	0.1611	0.149048
2135.3	2525.4	-390.1	390	152198	0.1827	0.16741
2170.4	2568.0	-397.6	398	158096	0.1832	0.167826
2182.7	2609.8	-427.1	427	182404	0.1957	0.178232
2177.7	2650.8	-473.1	473	223815	0.2172	0.195958
2198.9	2691.1	-492.2	492	242223	0.2238	0.201295
2176	2730.6	-554.6	555	307622	0.2549	0.226076
2117.4	2769.5	-652.1	652	425299	0.3080	0.266894
2129.7	2807.8	-678.1	678	459861	0.3184	0.274684
2177.5	2845.5	-668.0	668	446234	0.3068	0.265979
2226.5	2882.6	-656.1	656	430478	0.2947	0.256839
2273	2919.2	-646.2	646	417517	0.2843	0.248897
2332.4	2955.2	-622.8	623	387847	0.2670	0.235561
2331.4	2990.7	-659.3	659	434654	0.2828	0.247754
2339.1	3025.7	-686.6	687	471425	0.2935	0.255966
2391	3060.3	-669.3	669	447902	0.2799	0.245542
2379.2	3094.4	-715.2	715	511445	0.3006	0.261312
2383.6	3128.0	-744.4	744	554156	0.3123	0.270126
2352.9	3161.3	-808.4	808	653445	0.3436	0.293194



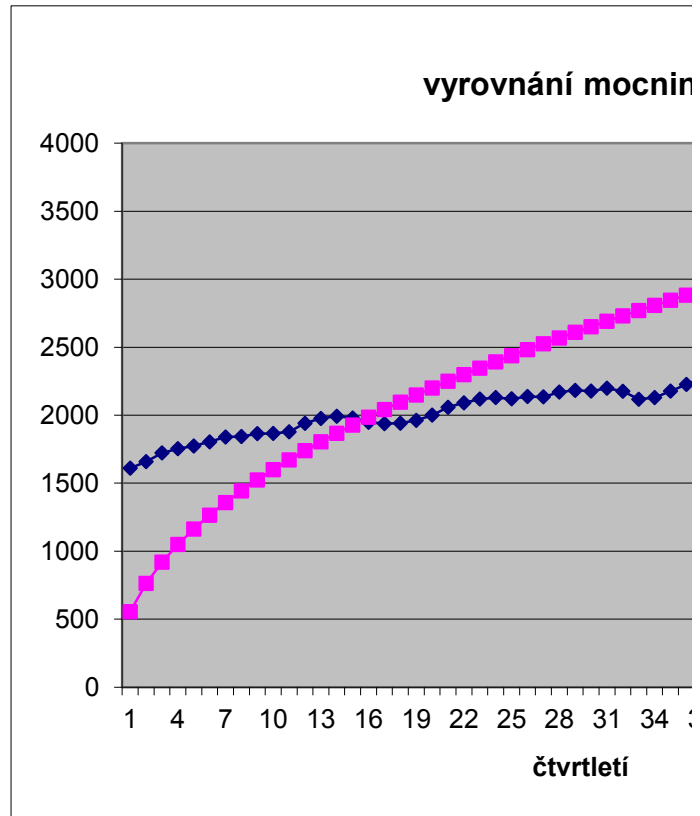
2366.5	3194.1	-827.6	828	684916	0.3497	0.297665
2410.8	3226.5	-815.7	816	665435	0.3384	0.289407
2450.4	3258.6	-808.2	808	653200	0.3298	0.283134
2500.4	3290.3	-789.9	790	623955	0.3159	0.272819
2544	3321.7	-777.7	778	604745	0.3057	0.265155
2571.5	3352.7	-781.2	781	610203	0.3038	0.263719
2596.8	3383.3	-786.5	787	618619	0.3029	0.263046
2603.3	3413.7	-810.4	810	656697	0.3113	0.269361
2634.1	3443.7	-809.6	810	655452	0.3074	0.266412
2668.4	3473.4	-805.0	805	648069	0.3017	0.262146
2719.6	3502.9	-783.3	783	613494	0.2880	0.251752
2739.4	3532.0	-792.6	793	628218	0.2893	0.252767
2800.5	3560.9	-760.4	760	578156	0.2715	0.239057
2833.8	3589.5	-755.7	756	571018	0.2667	0.235288
2872	3617.8	-745.8	746	556193	0.2597	0.229833
2879.5	3645.9	-766.4	766	587295	0.2661	0.234884
2950.1	3673.7	-723.6	724	523552	0.2453	0.218476
2989.9	3701.2	-711.3	711	506005	0.2379	0.212621
3050.7	3728.6	-677.9	678	459511	0.2222	0.199984
3123.6	3755.7	-632.1	632	399514	0.2024	0.183761
3201.1	3782.5	-581.4	581	338075	0.1816	0.166516
3213.2	3809.2	-596.0	596	355205	0.1855	0.16974
3233.6	3835.6	-602.0	602	362431	0.1862	0.170322
3261.8	3861.8	-600.0	600	360050	0.1840	0.168465
3291.8	3887.9	-596.1	596	355280	0.1811	0.16604
3289.7	3913.7	-624.0	624	389329	0.1897	0.173242
3313.5	3939.3	-625.8	626	391592	0.1889	0.172561
3338.3	3964.7	-626.4	626	392364	0.1876	0.171543
3406.2	3989.9	-583.7	584	340725	0.1714	0.157844
3464.8	4015.0	-550.2	550	302672	0.1588	0.147106
3489.2	4039.8	-550.6	551	303177	0.1578	0.146265
3504.1	4064.5	-560.4	560	314043	0.1599	0.148084
3558.3	4089.0	-530.7	531	281643	0.1491	0.138794
3567.6	4113.3	-545.7	546	297826	0.1530	0.142101
3588.3	4137.5	-549.2	549	301621	0.1531	0.142173
3571.4	4161.5	-590.1	590	348219	0.1652	0.152621
3566.5	4185.3	-618.8	619	382964	0.1735	0.159663
3573.9	4209.0	-635.1	635	403380	0.1777	0.163209
3605.2	4232.5	-627.3	627	393566	0.1740	0.160084
3566.5	4255.9	-689.4	689	475302	0.1933	0.176268
3666.1	4279.1	-613.0	613	375824	0.1672	0.154317
3686.2	4302.2	-616.0	616	379482	0.1671	0.154228
3714.5	4325.2	-610.7	611	372896	0.1644	0.15191
3723.8	4347.9	-624.1	624	389554	0.1676	0.154649
3796.9	4370.6	-573.7	574	329123	0.1511	0.140482

3883.8	4393.1	-509.3	509	259392	0.1311	0.123067
3922.3	4415.5	-493.2	493	243231	0.1257	0.118301
3990.5	4437.7	-447.2	447	200015	0.1121	0.106127
4092.3	4459.8	-367.5	368	135090	0.0898	0.085954
4133.3	4481.8	-348.5	349	121476	0.0843	0.080912
4117	4503.7	-386.7	387	149534	0.0939	0.089713
4151.1	4525.4	-374.3	374	140126	0.0902	0.086286
4119.3	4547.0	-427.7	428	182970	0.1038	0.098715
4130.4	4568.5	-438.1	438	191971	0.1061	0.100735
4084.5	4589.9	-505.4	505	255452	0.1237	0.116532
4062	4611.2	-549.2	549	301603	0.1352	0.12664
4010	4632.3	-622.3	622	387296	0.1552	0.144019
4045.2	4653.4	-608.2	608	369865	0.1503	0.139831
4115.4	4674.3	-558.9	559	312356	0.1358	0.127169
4167.2	4695.1	-527.9	528	278680	0.1267	0.119134
4266.1	4715.8	-449.7	450	202236	0.1054	0.100136
4301.5	4736.4	-434.9	435	189144	0.1011	0.096241
4321.9	4756.9	-435.0	435	189226	0.1007	0.095828
4357.4	4777.3	-419.9	420	176310	0.0964	0.091934
4410.5	4797.6	-387.1	387	149833	0.0878	0.084074
4489.8	4817.8	-328.0	328	107565	0.0730	0.070474
4570.6	4837.9	-267.3	267	71429	0.0585	0.056813
4576.1	4857.9	-281.8	282	79386	0.0616	0.059732
4588.9	4877.8	-288.9	289	83436	0.0629	0.061025
4765.7	4897.6	-131.9	132	17385	0.0277	0.02729
4811.7	4917.3	-105.6	106	11143	0.0219	0.021701
4876	4936.9	-60.9	61	3706	0.0125	0.012408
4888.3	4956.4	-68.1	68	4638	0.0139	0.013835
4891.4	4975.8	-84.4	84	7130	0.0173	0.017115
4926.2	4995.2	-69.0	69	4759	0.0140	0.013906
4942.6	5014.4	-71.8	72	5161	0.0145	0.014431
4958.9	5033.6	-74.7	75	5582	0.0151	0.014954
4857.8	5052.7	-194.9	195	37986	0.0401	0.039332
4850.3	5071.7	-221.4	221	49020	0.0456	0.044629
4936.6	5090.6	-154.0	154	23723	0.0312	0.030721
5032.5	5109.5	-77.0	77	5923	0.0153	0.015176
4997.3	5128.2	-130.9	131	17139	0.0262	0.025858
5056.8	5146.9	-90.1	90	8116	0.0178	0.017658
4997.1	5165.5	-168.4	168	28354	0.0337	0.033138
4914.3	5184.0	-269.7	270	72740	0.0549	0.053416
4935.5	5202.4	-266.9	267	71259	0.0541	0.052662
4912.1	5220.8	-308.7	309	95301	0.0628	0.060932
4915.6	5239.1	-323.5	323	104650	0.0658	0.063714
4972.4	5257.3	-284.9	285	81174	0.0573	0.055702
5089.8	5275.5	-185.7	186	34466	0.0365	0.035822

5180.4	5293.5	-113.1	113	12795	0.0218	0.0216
5286.8	5311.5	-24.7	25	611	0.0047	0.004663
5402.3	5329.4	72.9	73	5309	0.0135	0.013579
5493.8	5347.3	146.5	147	21466	0.0267	0.027029
5541.3	5365.1	176.2	176	31057	0.0318	0.032317
5583.1	5382.8	200.3	200	40126	0.0359	0.036534
5629.7	5400.4	229.3	229	52564	0.0407	0.041571
5673.8	5418.0	255.8	256	65429	0.0451	0.046122
5758.6	5435.5	323.1	323	104380	0.0561	0.057723
5806	5453.0	353.0	353	124633	0.0608	0.062711
5858.9	5470.3	388.6	389	150973	0.0663	0.068593
5883.3	5487.7	395.6	396	156529	0.0672	0.069587
5937.9	5504.9	433.0	433	187476	0.0729	0.075678
5969.5	5522.1	447.4	447	200164	0.0749	0.077865
6013.3	5539.2	474.1	474	224743	0.0788	0.082072
6077.2	5556.3	520.9	521	271344	0.0857	0.089553
6128.1	5573.3	554.8	555	307808	0.0905	0.094827
6234.4	5590.2	644.2	644	414946	0.1033	0.108953
6275.9	5607.1	668.8	669	447268	0.1066	0.112561
6349.8	5623.9	725.9	726	526871	0.1143	0.121242
6382.3	5640.7	741.6	742	549964	0.1162	0.123363
6465.2	5657.4	807.8	808	652525	0.1249	0.13327
6543.8	5674.1	869.7	870	756453	0.1329	0.142372
6579.4	5690.6	888.8	889	789882	0.1351	0.144865
6610.6	5707.2	903.4	903	816167	0.1367	0.146685
6633.5	5723.7	909.8	910	827813	0.1372	0.147258
6716.3	5740.1	976.2	976	953006	0.1454	0.156742
6731.7	5756.4	975.3	975	951119	0.1449	0.156189
6719.4	5772.8	946.6	947	896129	0.1409	0.151558
6664.2	5789.0	875.2	875	765945	0.1313	0.140555
6631.4	5805.2	826.2	826	682570	0.1246	0.132862
6668.5	5821.4	847.1	847	717622	0.1270	0.13565
6684.9	5837.5	847.4	847	718131	0.1268	0.135346
6720.9	5853.5	867.4	867	752346	0.1291	0.137959
6783.3	5869.5	913.8	914	834999	0.1347	0.144439
6846.8	5885.5	961.3	961	924170	0.1404	0.151008
6899.7	5901.4	998.3	998	996689	0.1447	0.155978
6990.6	5917.2	1073.4	1073	1152185	0.1535	0.166318
6988.7	5933.0	1055.7	1056	1114512	0.1511	0.1634
7031.2	5948.7	1082.5	1082	1171718	0.1540	0.16679
7062	5964.4	1097.6	1098	1204644	0.1554	0.168513
7168.7	5980.1	1188.6	1189	1412804	0.1658	0.180795
7229.4	5995.7	1233.7	1234	1522051	0.1707	0.186572
7330.2	6011.2	1319.0	1319	1739660	0.1799	0.197724
7370.2	6026.7	1343.5	1343	1804874	0.1823	0.200562

7461.1	6042.2	1418.9	1419	2013269	0.1902	0.210156
7488.7	6057.6	1431.1	1431	2048003	0.1911	0.211288
7503.3	6073.0	1430.3	1430	2045810	0.1906	0.210708
7561.4	6088.3	1473.1	1473	2170015	0.1948	0.215843
7621.9	6103.6	1518.3	1518	2305299	0.1992	0.221241
7676.4	6118.8	1557.6	1558	2426087	0.2029	0.225816
7802.9	6134.0	1668.9	1669	2785239	0.2139	0.239494
7841.9	6149.1	1692.8	1693	2865439	0.2159	0.241978
7931.3	6164.2	1767.1	1767	3122507	0.2228	0.250726
8016.4	6179.3	1837.1	1837	3374959	0.2292	0.258826
8131.9	6194.3	1937.6	1938	3754269	0.2383	0.270496
8216.6	6209.3	2007.3	2007	4029347	0.2443	0.278295
8272.9	6224.2	2048.7	2049	4197154	0.2476	0.282635
8396.3	6239.1	2157.2	2157	4653554	0.2569	0.294794
8442.9	6253.9	2189.0	2189	4791570	0.2593	0.297883
8528.5	6268.7	2259.8	2260	5106527	0.2650	0.30543
8667.9	6283.5	2384.4	2384	5685366	0.2751	0.318954
8733.5	6298.2	2435.3	2435	5930585	0.2788	0.324019
8771.2	6312.9	2458.3	2458	6043230	0.2803	0.325946
8871.5	6327.5	2544.0	2544	6471718	0.2868	0.334752
9049.9	6342.1	2707.8	2708	7331941	0.2992	0.351838
9102.5	6356.7	2745.8	2746	7539383	0.3017	0.355231
9229.4	6371.2	2858.2	2858	8169140	0.3097	0.366417
9260.1	6385.7	2874.4	2874	8262098	0.3104	0.367432
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		(SE)	SAE	SSE		
		163.3882	726.039	890807.970	16.678	16.866
		ME	MAE	MSE	MAPE	AMAPE
THEILovoU	0.09774			943.826		
				RMSE		

$y_t^2$	$yv_t^2$
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3477106.09	2322076.93
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10247041.21	14307626.98
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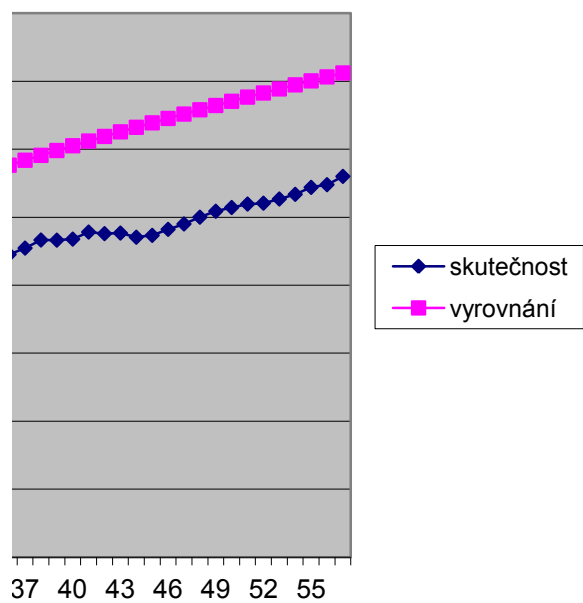
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22711896.49	23986035.27
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24971008.41	26682247.69
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35258656.41	30304083.58
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66127797.61	38369432.96
67512515.56	38555115.31
68440874.41	38740719.57
70497853.69	38926246.19
71282560.41	39111695.60
72735312.25	39297068.24
75132490.41	39482364.52
76274022.25	39667584.88
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81900690.01	40222794.49
82855506.25	40407715.24
85181824.36	40592562.10
85749452.01	40777335.46
86562555.21	40962035.71
<b>5153991741</b>	<b>4373438291</b>

## iným trendem



čtvrtletí	pořadí	hodnota	čtvrtletí	pořadí	hodnota	čtvrtletí	pořadí
1950Q1	1	1610.50	1967Q1	69	3291.80	1984Q1	137
1950Q2	2	1658.80	1967Q2	70	3289.70	1984Q2	138
1950Q3	3	1723.00	1967Q3	71	3313.50	1984Q3	139
1950Q4	4	1753.90	1967Q4	72	3338.30	1984Q4	140
1951Q1	5	1773.50	1968Q1	73	3406.20	1985Q1	141
1951Q2	6	1803.70	1968Q2	74	3464.80	1985Q2	142
1951Q3	7	1839.80	1968Q3	75	3489.20	1985Q3	143
1951Q4	8	1843.30	1968Q4	76	3504.10	1985Q4	144
1952Q1	9	1864.70	1969Q1	77	3558.30	1986Q1	145
1952Q2	10	1866.20	1969Q2	78	3567.60	1986Q2	146
1952Q3	11	1878.00	1969Q3	79	3588.30	1986Q3	147
1952Q4	12	1940.20	1969Q4	80	3571.40	1986Q4	148
1953Q1	13	1976.00	1970Q1	81	3566.50	1987Q1	149
1953Q2	14	1992.20	1970Q2	82	3573.90	1987Q2	150
1953Q3	15	1979.50	1970Q3	83	3605.20	1987Q3	151
1953Q4	16	1947.80	1970Q4	84	3566.50	1987Q4	152
1954Q1	17	1938.10	1971Q1	85	3666.10	1988Q1	153
1954Q2	18	1941.00	1971Q2	86	3686.20	1988Q2	154
1954Q3	19	1962.00	1971Q3	87	3714.50	1988Q3	155
1954Q4	20	2000.90	1971Q4	88	3723.80	1988Q4	156
1955Q1	21	2058.10	1972Q1	89	3796.90	1989Q1	157
1955Q2	22	2091.00	1972Q2	90	3883.80	1989Q2	158
1955Q3	23	2118.90	1972Q3	91	3922.30	1989Q3	159
1955Q4	24	2130.10	1972Q4	92	3990.50	1989Q4	160
1956Q1	25	2121.00	1973Q1	93	4092.30	1990Q1	161
1956Q2	26	2137.70	1973Q2	94	4133.30	1990Q2	162
1956Q3	27	2135.30	1973Q3	95	4117.00	1990Q3	163
1956Q4	28	2170.40	1973Q4	96	4151.10	1990Q4	164
1957Q1	29	2182.70	1974Q1	97	4119.30	1991Q1	165
1957Q2	30	2177.70	1974Q2	98	4130.40	1991Q2	166
1957Q3	31	2198.90	1974Q3	99	4084.50	1991Q3	167
1957Q4	32	2176.00	1974Q4	100	4062.00	1991Q4	168
1958Q1	33	2117.40	1975Q1	101	4010.00	1992Q1	169
1958Q2	34	2129.70	1975Q2	102	4045.20	1992Q2	170
1958Q3	35	2177.50	1975Q3	103	4115.40	1992Q3	171
1958Q4	36	2226.50	1975Q4	104	4167.20	1992Q4	172
1959Q1	37	2273.00	1976Q1	105	4266.10	1993Q1	173
1959Q2	38	2332.40	1976Q2	106	4301.50	1993Q2	174
1959Q3	39	2331.40	1976Q3	107	4321.90	1993Q3	175
1959Q4	40	2339.10	1976Q4	108	4357.40	1993Q4	176
1960Q1	41	2391.00	1977Q1	109	4410.50	1994Q1	177
1960Q2	42	2379.20	1977Q2	110	4489.80	1994Q2	178
1960Q3	43	2383.60	1977Q3	111	4570.60	1994Q3	179
1960Q4	44	2352.90	1977Q4	112	4576.10	1994Q4	180

1961Q1	45	2366.50	1978Q1	113	4588.90	1995Q1	181
1961Q2	46	2410.80	1978Q2	114	4765.70	1995Q2	182
1961Q3	47	2450.40	1978Q3	115	4811.70	1995Q3	183
1961Q4	48	2500.40	1978Q4	116	4876.00	1995Q4	184
1962Q1	49	2544.00	1979Q1	117	4888.30	1996Q1	185
1962Q2	50	2571.50	1979Q2	118	4891.40	1996Q2	186
1962Q3	51	2596.80	1979Q3	119	4926.20	1996Q3	187
1962Q4	52	2603.30	1979Q4	120	4942.60	1996Q4	188
1963Q1	53	2634.10	1980Q1	121	4958.90	1997Q1	189
1963Q2	54	2668.40	1980Q2	122	4857.80	1997Q2	190
1963Q3	55	2719.60	1980Q3	123	4850.30	1997Q3	191
1963Q4	56	2739.40	1980Q4	124	4936.60	1997Q4	192
1964Q1	57	2800.50	1981Q1	125	5032.50	1998Q1	193
1964Q2	58	2833.80	1981Q2	126	4997.30	1998Q2	194
1964Q3	59	2872.00	1981Q3	127	5056.80	1998Q3	195
1964Q4	60	2879.50	1981Q4	128	4997.10	1998Q4	196
1965Q1	61	2950.10	1982Q1	129	4914.30	1999Q1	197
1965Q2	62	2989.90	1982Q2	130	4935.50	1999Q2	198
1965Q3	63	3050.70	1982Q3	131	4912.10	1999Q3	199
1965Q4	64	3123.60	1982Q4	132	4915.60	1999Q4	200
1966Q1	65	3201.10	1983Q1	133	4972.40	2000Q1	201
1966Q2	66	3213.20	1983Q2	134	5089.80	2000Q2	202
1966Q3	67	3233.60	1983Q3	135	5180.40	2000Q3	203
1966Q4	68	3261.80	1983Q4	136	5286.80	2000Q4	204
dílčí součty:		<b>157639.60</b>			<b>289186.00</b>		

<i>parametr</i> <i>beta</i>	=	1.480603802	<b>1.0057880</b>	= b1
<i>parametr</i> <i>alfa</i>	=	0.024914282	<b>3277.3841</b>	= b0
<i>parametr</i> <i>gama</i>	=	273710.6935	<b>-1706.9278</b>	= b2







hodnota	realGDP	pořadí	hodnota	hodnota	hodnota
5402.30	1610.5	1	1610.5	3291.8	5402.3
5493.80	1658.8	2	1658.8	3289.7	5493.8
5541.30	1723	3	1723	3313.5	5541.3
5583.10	1753.9	4	1753.9	3338.3	5583.1
5629.70	1773.5	5	1773.5	3406.2	5629.7
5673.80	1803.7	6	1803.7	3464.8	5673.8
5758.60	1839.8	7	1839.8	3489.2	5758.6
5806.00	1843.3	8	1843.3	3504.1	5806
5858.90	1864.7	9	1864.7	3558.3	5858.9
5883.30	1866.2	10	1866.2	3567.6	5883.3
5937.90	1878	11	1878	3588.3	5937.9
5969.50	1940.2	12	1940.2	3571.4	5969.5
6013.30	1976	13	1976	3566.5	6013.3
6077.20	1992.2	14	1992.2	3573.9	6077.2
6128.10	1979.5	15	1979.5	3605.2	6128.1
6234.40	1947.8	16	1947.8	3566.5	6234.4
6275.90	1938.1	17	1938.1	3666.1	6275.9
6349.80	1941	18	1941	3686.2	6349.8
6382.30	1962	19	1962	3714.5	6382.3
6465.20	2000.9	20	2000.9	3723.8	6465.2
6543.80	2058.1	21	2058.1	3796.9	6543.8
6579.40	2091	22	2091	3883.8	6579.4
6610.60	2118.9	23	2118.9	3922.3	6610.6
6633.50	2130.1	24	2130.1	3990.5	6633.5
6716.30	2121	25	2121	4092.3	6716.3
6731.70	2137.7	26	2137.7	4133.3	6731.7
6719.40	2135.3	27	2135.3	4117	6719.4
6664.20	2170.4	28	2170.4	4151.1	6664.2
6631.40	2182.7	29	2182.7	4119.3	6631.4
6668.50	2177.7	30	2177.7	4130.4	6668.5
6684.90	2198.9	31	2198.9	4084.5	6684.9
6720.90	2176	32	2176	4062	6720.9
6783.30	2117.4	33	2117.4	4010	6783.3
6846.80	2129.7	34	2129.7	4045.2	6846.8
6899.70	2177.5	35	2177.5	4115.4	6899.7
6990.60	2226.5	36	2226.5	4167.2	6990.6
6988.70	2273	37	2273	4266.1	6988.7
7031.20	2332.4	38	2332.4	4301.5	7031.2
7062.00	2331.4	39	2331.4	4321.9	7062
7168.70	2339.1	40	2339.1	4357.4	7168.7
7229.40	2391	41	2391	4410.5	7229.4
7330.20	2379.2	42	2379.2	4489.8	7330.2
7370.20	2383.6	43	2383.6	4570.6	7370.2
7461.10	2352.9	44	2352.9	4576.1	7461.1



7488.70	2366.5	45	2366.5	4588.9	7488.7
7503.30	2410.8	46	2410.8	4765.7	7503.3
7561.40	2450.4	47	2450.4	4811.7	7561.4
7621.90	2500.4	48	2500.4	4876	7621.9
7676.40	2544	49	2544	4888.3	7676.4
7802.90	2571.5	50	2571.5	4891.4	7802.9
7841.90	2596.8	51	2596.8	4926.2	7841.9
7931.30	2603.3	52	2603.3	4942.6	7931.3
8016.40	2634.1	53	2634.1	4958.9	8016.4
8131.90	2668.4	54	2668.4	4857.8	8131.9
8216.60	2719.6	55	2719.6	4850.3	8216.6
8272.90	2739.4	56	2739.4	4936.6	8272.9
8396.30	2800.5	57	2800.5	5032.5	8396.3
8442.90	2833.8	58	2833.8	4997.3	8442.9
8528.50	2872	59	2872	5056.8	8528.5
8667.90	2879.5	60	2879.5	4997.1	8667.9
8733.50	2950.1	61	2950.1	4914.3	8733.5
8771.20	2989.9	62	2989.9	4935.5	8771.2
8871.50	3050.7	63	3050.7	4912.1	8871.5
9049.90	3123.6	64	3123.6	4915.6	9049.9
9102.50	3201.1	65	3201.1	4972.4	9102.5
9229.40	3213.2	66	3213.2	5089.8	9229.4
9260.10	3233.6	67	3233.6	5180.4	9260.1
9303.90	3261.8	68	3261.8	5286.8	9303.9
<b>483954.10</b>	3291.8	69			
	3289.7	70			
	3313.5	71			
	3338.3	72			
	3406.2	73			
	3464.8	74			
	3489.2	75			
	3504.1	76			
	3558.3	77			
	3567.6	78			
	3588.3	79			
	3571.4	80			
	3566.5	81			
	3573.9	82			
	3605.2	83			
	3566.5	84			
	3666.1	85			
	3686.2	86			
	3714.5	87			
	3723.8	88			
	3796.9	89			

3883.8	90
3922.3	91
3990.5	92
4092.3	93
4133.3	94
4117	95
4151.1	96
4119.3	97
4130.4	98
4084.5	99
4062	100
4010	101
4045.2	102
4115.4	103
4167.2	104
4266.1	105
4301.5	106
4321.9	107
4357.4	108
4410.5	109
4489.8	110
4570.6	111
4576.1	112
4588.9	113
4765.7	114
4811.7	115
4876	116
4888.3	117
4891.4	118
4926.2	119
4942.6	120
4958.9	121
4857.8	122
4850.3	123
4936.6	124
5032.5	125
4997.3	126
5056.8	127
4997.1	128
4914.3	129
4935.5	130
4912.1	131
4915.6	132
4972.4	133
5089.8	134

5180.4	135
5286.8	136
5402.3	137
5493.8	138
5541.3	139
5583.1	140
5629.7	141
5673.8	142
5758.6	143
5806	144
5858.9	145
5883.3	146
5937.9	147
5969.5	148
6013.3	149
6077.2	150
6128.1	151
6234.4	152
6275.9	153
6349.8	154
6382.3	155
6465.2	156
6543.8	157
6579.4	158
6610.6	159
6633.5	160
6716.3	161
6731.7	162
6719.4	163
6664.2	164
6631.4	165
6668.5	166
6684.9	167
6720.9	168
6783.3	169
6846.8	170
6899.7	171
6990.6	172
6988.7	173
7031.2	174
7062	175
7168.7	176
7229.4	177
7330.2	178
7370.2	179

7461.1	180
7488.7	181
7503.3	182
7561.4	183
7621.9	184
7676.4	185
7802.9	186
7841.9	187
7931.3	188
8016.4	189
8131.9	190
8216.6	191
8272.9	192
8396.3	193
8442.9	194
8528.5	195
8667.9	196
8733.5	197
8771.2	198
8871.5	199
9049.9	200
9102.5	201
9229.4	202
9260.1	203
9303.9	204

čtvrtletí	pořadí	<i>realGDP</i>	<i>vyrovnání</i>	<i>rezidua</i>	<i>abs.rezidua</i>	<i>rezidua^2</i>
1950Q1	1	1610.5	1589.426	21.074	21.074	444.12
1950Q2	2	1658.8	1608.505	50.295	50.295	2529.58
1950Q3	3	1723	1627.695	95.305	95.305	9083.08
1950Q4	4	1753.9	1646.996	106.904	106.904	11428.55
1951Q1	5	1773.5	1666.408	107.092	107.092	11468.67
1951Q2	6	1803.7	1685.933	117.767	117.767	13869.07
1951Q3	7	1839.8	1705.571	134.229	134.229	18017.46
1951Q4	8	1843.3	1725.322	117.978	117.978	13918.71
1952Q1	9	1864.7	1745.188	119.512	119.512	14283.05
1952Q2	10	1866.2	1765.169	101.031	101.031	10207.24
1952Q3	11	1878	1785.266	92.734	92.734	8599.66
1952Q4	12	1940.2	1805.478	134.722	134.722	18149.90
1953Q1	13	1976	1825.808	150.192	150.192	22557.56
1953Q2	14	1992.2	1846.256	145.944	145.944	21299.73
1953Q3	15	1979.5	1866.822	112.678	112.678	12696.43
1953Q4	16	1947.8	1887.506	60.294	60.294	3635.32
1954Q1	17	1938.1	1908.311	29.789	29.789	887.38
1954Q2	18	1941	1929.236	11.764	11.764	138.39
1954Q3	19	1962	1950.282	11.718	11.718	137.31
1954Q4	20	2000.9	1971.450	29.450	29.450	867.30
1955Q1	21	2058.1	1992.740	65.360	65.360	4271.87
1955Q2	22	2091	2014.154	76.846	76.846	5905.28
1955Q3	23	2118.9	2035.692	83.208	83.208	6923.61
1955Q4	24	2130.1	2057.354	72.746	72.746	5291.97
1956Q1	25	2121	2079.142	41.858	41.858	1752.11
1956Q2	26	2137.7	2101.056	36.644	36.644	1342.82
1956Q3	27	2135.3	2123.096	12.204	12.204	148.93
1956Q4	28	2170.4	2145.264	25.136	25.136	631.80
1957Q1	29	2182.7	2167.561	15.139	15.139	229.20
1957Q2	30	2177.7	2189.986	-12.286	12.286	150.95
1957Q3	31	2198.9	2212.542	-13.642	13.642	186.10
1957Q4	32	2176	2235.228	-59.228	59.228	3507.90
1958Q1	33	2117.4	2258.045	-140.645	140.645	19780.95
1958Q2	34	2129.7	2280.994	-151.294	151.294	22889.88
1958Q3	35	2177.5	2304.076	-126.576	126.576	16021.51
1958Q4	36	2226.5	2327.292	-100.792	100.792	10158.99
1959Q1	37	2273	2350.642	-77.642	77.642	6028.26
1959Q2	38	2332.4	2374.127	-41.727	41.727	1741.15
1959Q3	39	2331.4	2397.748	-66.348	66.348	4402.09
1959Q4	40	2339.1	2421.506	-82.406	82.406	6790.76
1960Q1	41	2391	2445.401	-54.401	54.401	2959.52
1960Q2	42	2379.2	2469.435	-90.235	90.235	8142.38
1960Q3	43	2383.6	2493.608	-110.008	110.008	12101.74
1960Q4	44	2352.9	2517.921	-165.021	165.021	27231.81

1961Q1	45	2366.5	2542.374	-175.874	175.874	30931.68
1961Q2	46	2410.8	2566.969	-156.169	156.169	24388.76
1961Q3	47	2450.4	2591.706	-141.306	141.306	19967.48
1961Q4	48	2500.4	2616.587	-116.187	116.187	13499.38
1962Q1	49	2544	2641.611	-97.611	97.611	9527.97
1962Q2	50	2571.5	2666.781	-95.281	95.281	9078.40
1962Q3	51	2596.8	2692.096	-95.296	95.296	9081.27
1962Q4	52	2603.3	2717.557	-114.257	114.257	13054.72
1963Q1	53	2634.1	2743.166	-109.066	109.066	11895.43
1963Q2	54	2668.4	2768.923	-100.523	100.523	10104.93
1963Q3	55	2719.6	2794.830	-75.230	75.230	5659.48
1963Q4	56	2739.4	2820.886	-81.486	81.486	6639.92
1964Q1	57	2800.5	2847.093	-46.593	46.593	2170.88
1964Q2	58	2833.8	2873.451	-39.651	39.651	1572.23
1964Q3	59	2872	2899.963	-27.963	27.963	781.91
1964Q4	60	2879.5	2926.627	-47.127	47.127	2220.98
1965Q1	61	2950.1	2953.446	-3.346	3.346	11.20
1965Q2	62	2989.9	2980.421	9.479	9.479	89.86
1965Q3	63	3050.7	3007.551	43.149	43.149	1861.84
1965Q4	64	3123.6	3034.838	88.762	88.762	7878.64
1966Q1	65	3201.1	3062.284	138.816	138.816	19269.98
1966Q2	66	3213.2	3089.888	123.312	123.312	15205.89
1966Q3	67	3233.6	3117.652	115.948	115.948	13443.98
1966Q4	68	3261.8	3145.576	116.224	116.224	13507.91
1967Q1	69	3291.8	3173.663	118.137	118.137	13956.40
1967Q2	70	3289.7	3201.912	87.788	87.788	7706.80
1967Q3	71	3313.5	3230.324	83.176	83.176	6918.25
1967Q4	72	3338.3	3258.901	79.399	79.399	6304.23
1968Q1	73	3406.2	3287.643	118.557	118.557	14055.76
1968Q2	74	3464.8	3316.552	148.248	148.248	21977.59
1968Q3	75	3489.2	3345.627	143.573	143.573	20613.06
1968Q4	76	3504.1	3374.872	129.228	129.228	16699.96
1969Q1	77	3558.3	3404.285	154.015	154.015	23720.58
1969Q2	78	3567.6	3433.869	133.731	133.731	17884.02
1969Q3	79	3588.3	3463.624	124.676	124.676	15544.16
1969Q4	80	3571.4	3493.551	77.849	77.849	6060.48
1970Q1	81	3566.5	3523.651	42.849	42.849	1836.01
1970Q2	82	3573.9	3553.926	19.974	19.974	398.97
1970Q3	83	3605.2	3584.376	20.824	20.824	433.65
1970Q4	84	3566.5	3615.002	-48.502	48.502	2352.42
1971Q1	85	3666.1	3645.805	20.295	20.295	411.88
1971Q2	86	3686.2	3676.787	9.413	9.413	88.61
1971Q3	87	3714.5	3707.948	6.552	6.552	42.93
1971Q4	88	3723.8	3739.289	-15.489	15.489	239.91
1972Q1	89	3796.9	3770.812	26.088	26.088	680.60

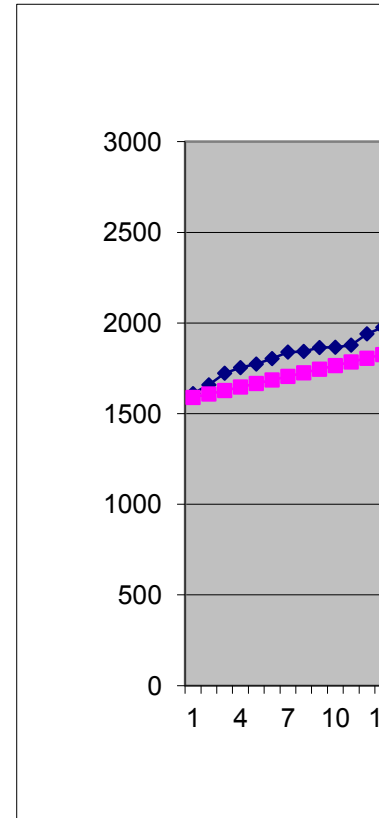
1972Q2	90	3883.8	3802.517	81.283	81.283	6606.96
1972Q3	91	3922.3	3834.405	87.895	87.895	7725.45
1972Q4	92	3990.5	3866.479	124.021	124.021	15381.28
1973Q1	93	4092.3	3898.738	193.562	193.562	37466.40
1973Q2	94	4133.3	3931.183	202.117	202.117	40851.20
1973Q3	95	4117	3963.817	153.183	153.183	23465.16
1973Q4	96	4151.1	3996.639	154.461	154.461	23858.25
1974Q1	97	4119.3	4029.651	89.649	89.649	8036.93
1974Q2	98	4130.4	4062.854	67.546	67.546	4562.41
1974Q3	99	4084.5	4096.250	-11.750	11.750	138.06
1974Q4	100	4062	4129.839	-67.839	67.839	4602.09
1975Q1	101	4010	4163.622	-153.622	153.622	23599.69
1975Q2	102	4045.2	4197.601	-152.401	152.401	23225.96
1975Q3	103	4115.4	4231.776	-116.376	116.376	13543.39
1975Q4	104	4167.2	4266.149	-98.949	98.949	9790.96
1976Q1	105	4266.1	4300.721	-34.621	34.621	1198.64
1976Q2	106	4301.5	4335.494	-33.994	33.994	1155.57
1976Q3	107	4321.9	4370.467	-48.567	48.567	2358.78
1976Q4	108	4357.4	4405.643	-48.243	48.243	2327.41
1977Q1	109	4410.5	4441.023	-30.523	30.523	931.64
1977Q2	110	4489.8	4476.607	13.193	13.193	174.05
1977Q3	111	4570.6	4512.397	58.203	58.203	3387.54
1977Q4	112	4576.1	4548.395	27.705	27.705	767.57
1978Q1	113	4588.9	4584.601	4.299	4.299	18.48
1978Q2	114	4765.7	4621.016	144.684	144.684	20933.45
1978Q3	115	4811.7	4657.642	154.058	154.058	23733.81
1978Q4	116	4876	4694.480	181.520	181.520	32949.40
1979Q1	117	4888.3	4731.532	156.768	156.768	24576.31
1979Q2	118	4891.4	4768.797	122.603	122.603	15031.38
1979Q3	119	4926.2	4806.279	119.921	119.921	14381.05
1979Q4	120	4942.6	4843.977	98.623	98.623	9726.42
1980Q1	121	4958.9	4881.894	77.006	77.006	5929.92
1980Q2	122	4857.8	4920.030	-62.230	62.230	3872.59
1980Q3	123	4850.3	4958.387	-108.087	108.087	11682.80
1980Q4	124	4936.6	4996.966	-60.366	60.366	3644.03
1981Q1	125	5032.5	5035.768	-3.268	3.268	10.68
1981Q2	126	4997.3	5074.795	-77.495	77.495	6005.43
1981Q3	127	5056.8	5114.047	-57.247	57.247	3277.25
1981Q4	128	4997.1	5153.527	-156.427	156.427	24469.44
1982Q1	129	4914.3	5193.235	-278.935	278.935	77804.96
1982Q2	130	4935.5	5233.174	-297.674	297.674	88609.54
1982Q3	131	4912.1	5273.343	-361.243	361.243	130496.40
1982Q4	132	4915.6	5313.745	-398.145	398.145	158519.17
1983Q1	133	4972.4	5354.380	-381.980	381.980	145908.96
1983Q2	134	5089.8	5395.251	-305.451	305.451	93300.42

1983Q3	135	5180.4	5436.359	-255.959	255.959	65514.80
1983Q4	136	5286.8	5477.704	-190.904	190.904	36444.31
1984Q1	137	5402.3	5519.289	-116.989	116.989	13686.33
1984Q2	138	5493.8	5561.114	-67.314	67.314	4531.16
1984Q3	139	5541.3	5603.181	-61.881	61.881	3829.30
1984Q4	140	5583.1	5645.492	-62.392	62.392	3892.79
1985Q1	141	5629.7	5688.048	-58.348	58.348	3404.50
1985Q2	142	5673.8	5730.850	-57.050	57.050	3254.72
1985Q3	143	5758.6	5773.900	-15.300	15.300	234.09
1985Q4	144	5806	5817.199	-11.199	11.199	125.42
1986Q1	145	5858.9	5860.749	-1.849	1.849	3.42
1986Q2	146	5883.3	5904.550	-21.250	21.250	451.58
1986Q3	147	5937.9	5948.606	-10.706	10.706	114.61
1986Q4	148	5969.5	5992.916	-23.416	23.416	548.30
1987Q1	149	6013.3	6037.483	-24.183	24.183	584.80
1987Q2	150	6077.2	6082.307	-5.107	5.107	26.08
1987Q3	151	6128.1	6127.391	0.709	0.709	0.50
1987Q4	152	6234.4	6172.736	61.664	61.664	3802.40
1988Q1	153	6275.9	6218.344	57.556	57.556	3312.71
1988Q2	154	6349.8	6264.215	85.585	85.585	7324.74
1988Q3	155	6382.3	6310.352	71.948	71.948	5176.47
1988Q4	156	6465.2	6356.756	108.444	108.444	11760.03
1989Q1	157	6543.8	6403.429	140.371	140.371	19704.04
1989Q2	158	6579.4	6450.372	129.028	129.028	16648.31
1989Q3	159	6610.6	6497.586	113.014	113.014	12772.14
1989Q4	160	6633.5	6545.074	88.426	88.426	7819.18
1990Q1	161	6716.3	6592.836	123.464	123.464	15243.25
1990Q2	162	6731.7	6640.875	90.825	90.825	8249.10
1990Q3	163	6719.4	6689.193	30.207	30.207	912.49
1990Q4	164	6664.2	6737.789	-73.589	73.589	5415.39
1991Q1	165	6631.4	6786.667	-155.267	155.267	24107.94
1991Q2	166	6668.5	6835.828	-167.328	167.328	27998.74
1991Q3	167	6684.9	6885.274	-200.374	200.374	40149.63
1991Q4	168	6720.9	6935.005	-214.105	214.105	45841.12
1992Q1	169	6783.3	6985.025	-201.725	201.725	40692.93
1992Q2	170	6846.8	7035.334	-188.534	188.534	35545.04
1992Q3	171	6899.7	7085.934	-186.234	186.234	34683.15
1992Q4	172	6990.6	7136.827	-146.227	146.227	21382.40
1993Q1	173	6988.7	7188.015	-199.315	199.315	39726.42
1993Q2	174	7031.2	7239.499	-208.299	208.299	43388.39
1993Q3	175	7062	7291.281	-229.281	229.281	52569.64
1993Q4	176	7168.7	7343.362	-174.662	174.662	30506.93
1994Q1	177	7229.4	7395.745	-166.345	166.345	27670.80
1994Q2	178	7330.2	7448.432	-118.232	118.232	13978.73
1994Q3	179	7370.2	7501.423	-131.223	131.223	17219.45



1994Q4	180	7461.1	7554.721	-93.621	93.621	8764.86
1995Q1	181	7488.7	7608.327	-119.627	119.627	14310.68
1995Q2	182	7503.3	7662.244	-158.944	158.944	25263.18
1995Q3	183	7561.4	7716.473	-155.073	155.073	24047.55
1995Q4	184	7621.9	7771.015	-149.115	149.115	22235.40
1996Q1	185	7676.4	7825.874	-149.474	149.474	22342.39
1996Q2	186	7802.9	7881.050	-78.150	78.150	6107.35
1996Q3	187	7841.9	7936.545	-94.645	94.645	8957.63
1996Q4	188	7931.3	7992.361	-61.061	61.061	3728.47
1997Q1	189	8016.4	8048.501	-32.101	32.101	1030.45
1997Q2	190	8131.9	8104.965	26.935	26.935	725.49
1997Q3	191	8216.6	8161.756	54.844	54.844	3007.83
1997Q4	192	8272.9	8218.876	54.024	54.024	2918.56
1998Q1	193	8396.3	8276.327	119.973	119.973	14393.56
1998Q2	194	8442.9	8334.110	108.790	108.790	11835.28
1998Q3	195	8528.5	8392.227	136.273	136.273	18570.21
1998Q4	196	8667.9	8450.681	217.219	217.219	47183.94
1999Q1	197	8733.5	8509.474	224.026	224.026	50187.83
1999Q2	198	8771.2	8568.606	202.594	202.594	41044.28
1999Q3	199	8871.5	8628.081	243.419	243.419	59252.85
1999Q4	200	9049.9	8687.900	362.000	362.000	131044.04
2000Q1	201	9102.5	8748.065	354.435	354.435	125624.02
2000Q2	202	9229.4	8808.579	420.821	420.821	177090.56
2000Q3	203	9260.1	8869.442	390.658	390.658	152613.31
2000Q4	204	9303.9	8930.658	373.242	373.242	139309.22
sumace		930779.7	930778.2702	1.4298 (SE)	22123.505 SAE	3794455.56 SSE
				0.00701 ME	108.449 MAE	18600.272 MSE
						136.383 RMSE
parametr	beta =	1.4806038	1.0057880	= b1		
parametr	alfa =	0.0249143	3277.3841	= b0		
parametr	gama =	273710.6935	-1706.9278	= b2		

APE	AMAPE	$y_t^2$	$yv_t^2$
0.013	0.013	2593710.25	2526274.37
0.030	0.031	2751617.44	2587288.64
0.055	0.057	2968729.00	2649390.43
0.061	0.063	3076165.21	2712594.56
0.060	0.062	3145302.25	2776916.04
0.065	0.067	3253333.69	2842370.05
0.073	0.076	3384864.04	2908971.99
0.064	0.066	3397754.89	2976737.43
0.064	0.066	3477106.09	3045682.12
0.054	0.056	3482702.44	3115822.04
0.049	0.051	3526884.00	3187173.34
0.069	0.072	3764376.04	3259752.39
0.076	0.079	3904576.00	3333575.75
0.073	0.076	3968860.84	3408660.19
0.057	0.059	3918420.25	3485022.69
0.031	0.031	3793924.84	3562680.44
0.015	0.015	3756231.61	3641650.85
0.006	0.006	3767481.00	3721951.53
0.006	0.006	3849444.00	3803600.32
0.015	0.015	4003600.81	3886615.27
0.032	0.032	4235775.61	3971014.67
0.037	0.037	4372281.00	4056817.04
0.039	0.040	4489737.21	4144041.09
0.034	0.035	4537326.01	4232705.80
0.020	0.020	4498641.00	4322830.38
0.017	0.017	4569761.29	4414434.27
0.006	0.006	4559506.09	4507537.13
0.012	0.012	4710636.16	4602158.91
0.007	0.007	4764179.29	4698319.76
0.006	0.006	4742377.29	4796040.11
0.006	0.006	4835161.21	4895340.62
0.027	0.027	4734976.00	4996242.22
0.066	0.064	4483382.76	5098766.09
0.071	0.069	4535622.09	5202933.68
0.058	0.056	4741506.25	5308766.68
0.045	0.044	4957302.25	5416287.09
0.034	0.034	5166529.00	5525517.13
0.018	0.018	5440089.76	5636479.34
0.028	0.028	5435425.96	5749196.50
0.035	0.035	5471388.81	5863691.69
0.023	0.022	5716881.00	5979988.27
0.038	0.037	5660592.64	6098109.89
0.046	0.045	5681548.96	6218080.48
0.070	0.068	5536138.41	6339924.28



0.074	0.072	5600322.25	6463665.80
0.065	0.063	5811956.64	6589329.88
0.058	0.056	6004460.16	6716941.66
0.046	0.045	6252000.16	6846526.57
0.038	0.038	6471936.00	6978110.36
0.037	0.036	6612612.25	7111719.11
0.037	0.036	6743370.24	7247379.19
0.044	0.043	6777170.89	7385117.33
0.041	0.041	6938482.81	7524960.56
0.038	0.037	7120358.56	7666936.24
0.028	0.027	7396224.16	7811072.08
0.030	0.029	7504312.36	7957396.11
0.017	0.017	7842800.25	8105936.74
0.014	0.014	8030422.44	8256722.67
0.010	0.010	8248384.00	8409783.00
0.016	0.016	8291520.25	8565147.17
0.001	0.001	8703090.01	8722844.96
0.003	0.003	8939502.01	8882906.53
0.014	0.014	9306770.49	9045362.43
0.028	0.029	9756876.96	9210243.54
0.043	0.044	10247041.21	9377581.13
0.038	0.039	10324654.24	9547406.88
0.036	0.037	10456168.96	9719752.82
0.036	0.036	10639339.24	9894651.38
0.036	0.037	10835947.24	10072135.40
0.027	0.027	10822126.09	10252238.10
0.025	0.025	10979282.25	10434993.11
0.024	0.024	11144246.89	10620434.47
0.035	0.035	11602198.44	10808596.65
0.043	0.044	12004839.04	10999514.51
0.041	0.042	12174516.64	11193223.36
0.037	0.038	12278716.81	11389758.91
0.043	0.044	12661498.89	11589157.34
0.037	0.038	12727769.76	11791455.24
0.035	0.035	12875896.89	11996689.66
0.022	0.022	12754897.96	12204898.08
0.012	0.012	12719922.25	12416118.47
0.006	0.006	12772761.21	12630389.23
0.006	0.006	12997467.04	12847749.24
0.014	0.014	12719922.25	13068237.84
0.006	0.006	13440289.21	13291894.86
0.003	0.003	13588070.44	13518760.60
0.002	0.002	13797510.25	13748875.87
0.004	0.004	13866686.44	13982281.94
0.007	0.007	14416449.61	14219020.61

0.021	0.021	15083902.44	14459134.17
0.022	0.023	15384437.29	14702665.43
0.031	0.032	15924090.25	14949657.71
0.047	0.048	16746919.29	15200154.87
0.049	0.050	17084168.89	15454201.28
0.037	0.038	16949689.00	15711841.86
0.037	0.038	17231631.21	15973122.06
0.022	0.022	16968632.49	16238087.90
0.016	0.016	17060204.16	16506785.94
0.003	0.003	16683140.25	16779263.31
0.017	0.017	16499844.00	17055567.69
0.038	0.038	16080100.00	17335747.37
0.038	0.037	16363643.04	17619851.19
0.028	0.028	16936517.16	17907928.60
0.024	0.023	17365555.84	18200029.64
0.008	0.008	18199609.21	18496204.95
0.008	0.008	18502902.25	18796505.79
0.011	0.011	18678819.61	19100984.02
0.011	0.011	18986934.76	19409692.16
0.007	0.007	19452510.25	19722683.32
0.003	0.003	20158304.04	20040011.27
0.013	0.013	20890384.36	20361730.44
0.006	0.006	20940691.21	20687895.90
0.001	0.001	21058003.21	21018563.38
0.030	0.031	22711896.49	21353789.29
0.032	0.033	23152456.89	21693630.72
0.037	0.038	23775376.00	22038145.43
0.032	0.033	23895476.89	22387391.90
0.025	0.025	23925793.96	22741429.30
0.024	0.025	24267446.44	23100317.50
0.020	0.020	24429294.76	23464117.12
0.016	0.016	24590689.21	23832889.48
0.013	0.013	23598220.84	24206696.65
0.022	0.022	23525410.09	24585601.44
0.012	0.012	24370019.56	24969667.43
0.001	0.001	25326056.25	25358958.93
0.016	0.015	24973007.29	25753541.06
0.011	0.011	25571226.24	26153479.70
0.031	0.031	24971008.41	26558841.52
0.057	0.055	24150344.49	26969694.00
0.060	0.059	24359160.25	27386105.43
0.074	0.071	24128726.41	27808144.91
0.081	0.078	24163123.36	28235882.37
0.077	0.074	24724761.76	28669388.59
0.060	0.058	25906064.04	29108735.18

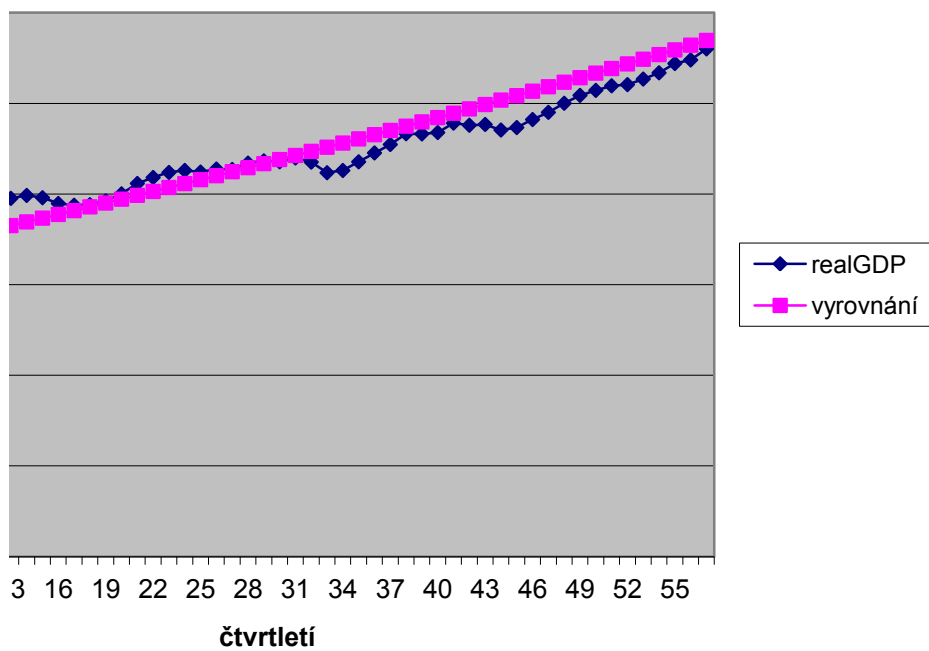
0.049	0.048	26836544.16	29553994.62
0.036	0.035	27950254.24	30005240.27
0.022	0.021	29184845.29	30462546.33
0.012	0.012	30181838.44	30925987.94
0.011	0.011	30706005.69	31395641.10
0.011	0.011	31171005.61	31871582.73
0.010	0.010	31693522.09	32353890.69
0.010	0.010	32192006.44	32842643.74
0.003	0.003	33161473.96	33337921.62
0.002	0.002	33709636.00	33839804.98
0.000	0.000	34326709.21	34348375.48
0.004	0.004	34613218.89	34863715.72
0.002	0.002	35258656.41	35385909.31
0.004	0.004	35634930.25	35915040.84
0.004	0.004	36159776.89	36451195.95
0.001	0.001	36932359.84	36994461.25
0.000	0.000	37553609.61	37544924.43
0.010	0.010	38867743.36	38102674.20
0.009	0.009	39386920.81	38667800.34
0.013	0.014	40319960.04	39240393.71
0.011	0.011	40733753.29	39820546.24
0.017	0.017	41798811.04	40408350.97
0.021	0.022	42821318.44	41003902.04
0.020	0.020	43288504.36	41607294.72
0.017	0.017	43700032.36	42218625.42
0.013	0.013	44003322.25	42837991.69
0.018	0.019	45108685.69	43465492.25
0.013	0.014	45315784.89	44101227.01
0.004	0.005	45150336.36	44745297.04
0.011	0.011	44411561.64	45397804.65
0.023	0.023	43975465.96	46058853.34
0.025	0.025	44468892.25	46728547.88
0.030	0.030	44687888.01	47406994.24
0.032	0.031	45170496.81	48094299.69
0.030	0.029	46013158.89	48790572.78
0.028	0.027	46878670.24	49495923.32
0.027	0.027	47605860.09	50210462.46
0.021	0.021	48868488.36	50934302.66
0.029	0.028	48841927.69	51667557.72
0.030	0.029	49437773.44	52410342.80
0.032	0.032	49871844.00	53162774.42
0.024	0.024	51390259.69	53924970.49
0.023	0.023	52264224.36	54697050.35
0.016	0.016	53731832.04	55479134.71
0.018	0.018	54319848.04	56271345.75

0.013	0.012
0.016	0.016
0.021	0.021
0.021	0.020
0.020	0.019
0.019	0.019
0.010	0.010
0.012	0.012
0.008	0.008
0.004	0.004
0.003	0.003
0.007	0.007
0.007	0.007
0.014	0.014
0.013	0.013
0.016	0.016
0.025	0.025
0.026	0.026
0.023	0.023
0.027	0.028
0.040	0.041
0.039	0.040
0.046	0.047
0.042	0.043
0.040	0.041
<b>5.4580</b>	<b>5.463401581</b>
<b>2.675</b>	<b>2.678</b>
<b>MAPE</b>	<b>AMAPE</b>

55668013.21	57073807.11
56080627.69	57886643.87
56299510.89	58709982.63
57174769.96	59543951.46
58093359.61	60388679.98
58927116.96	61244299.35
60885248.41	62110942.27
61495395.61	62988743.04
62905519.69	63877837.54
64262668.96	64778363.26
66127797.61	65690459.33
67512515.56	66614266.55
68440874.41	67549927.37
70497853.69	68497585.93
71282560.41	69457388.09
72735312.25	70429481.44
75132490.41	71414015.32
76274022.25	72411140.85
76933949.44	73421010.93
78703512.25	74443780.29
81900690.01	75479605.48
82855506.25	76528644.91
85181824.36	77591058.87
85749452.01	78667009.56
86562555.21	79756661.09
<b>5153991741</b>	<b>5152325326</b>

<b>THEILovoU</b>	<b>0.01357</b>
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### vyrovnání mod.exponenciálním trendem



čtvrtletí	pořadí	rec.hodnota	čtvrtletí	pořadí	rec.hodnota	čtvrtletí	pořadí
1950Q1	1	0.000621	1967Q1	69	0.000304	1984Q1	137
1950Q2	2	0.000603	1967Q2	70	0.000304	1984Q2	138
1950Q3	3	0.000580	1967Q3	71	0.000302	1984Q3	139
1950Q4	4	0.000570	1967Q4	72	0.000300	1984Q4	140
1951Q1	5	0.000564	1968Q1	73	0.000294	1985Q1	141
1951Q2	6	0.000554	1968Q2	74	0.000289	1985Q2	142
1951Q3	7	0.000544	1968Q3	75	0.000287	1985Q3	143
1951Q4	8	0.000543	1968Q4	76	0.000285	1985Q4	144
1952Q1	9	0.000536	1969Q1	77	0.000281	1986Q1	145
1952Q2	10	0.000536	1969Q2	78	0.000280	1986Q2	146
1952Q3	11	0.000532	1969Q3	79	0.000279	1986Q3	147
1952Q4	12	0.000515	1969Q4	80	0.000280	1986Q4	148
1953Q1	13	0.000506	1970Q1	81	0.000280	1987Q1	149
1953Q2	14	0.000502	1970Q2	82	0.000280	1987Q2	150
1953Q3	15	0.000505	1970Q3	83	0.000277	1987Q3	151
1953Q4	16	0.000513	1970Q4	84	0.000280	1987Q4	152
1954Q1	17	0.000516	1971Q1	85	0.000273	1988Q1	153
1954Q2	18	0.000515	1971Q2	86	0.000271	1988Q2	154
1954Q3	19	0.000510	1971Q3	87	0.000269	1988Q3	155
1954Q4	20	0.000500	1971Q4	88	0.000269	1988Q4	156
1955Q1	21	0.000486	1972Q1	89	0.000263	1989Q1	157
1955Q2	22	0.000478	1972Q2	90	0.000257	1989Q2	158
1955Q3	23	0.000472	1972Q3	91	0.000255	1989Q3	159
1955Q4	24	0.000469	1972Q4	92	0.000251	1989Q4	160
1956Q1	25	0.000471	1973Q1	93	0.000244	1990Q1	161
1956Q2	26	0.000468	1973Q2	94	0.000242	1990Q2	162
1956Q3	27	0.000468	1973Q3	95	0.000243	1990Q3	163
1956Q4	28	0.000461	1973Q4	96	0.000241	1990Q4	164
1957Q1	29	0.000458	1974Q1	97	0.000243	1991Q1	165
1957Q2	30	0.000459	1974Q2	98	0.000242	1991Q2	166
1957Q3	31	0.000455	1974Q3	99	0.000245	1991Q3	167
1957Q4	32	0.000460	1974Q4	100	0.000246	1991Q4	168
1958Q1	33	0.000472	1975Q1	101	0.000249	1992Q1	169
1958Q2	34	0.000470	1975Q2	102	0.000247	1992Q2	170
1958Q3	35	0.000459	1975Q3	103	0.000243	1992Q3	171
1958Q4	36	0.000449	1975Q4	104	0.000240	1992Q4	172
1959Q1	37	0.000440	1976Q1	105	0.000234	1993Q1	173
1959Q2	38	0.000429	1976Q2	106	0.000232	1993Q2	174
1959Q3	39	0.000429	1976Q3	107	0.000231	1993Q3	175
1959Q4	40	0.000428	1976Q4	108	0.000229	1993Q4	176
1960Q1	41	0.000418	1977Q1	109	0.000227	1994Q1	177
1960Q2	42	0.000420	1977Q2	110	0.000223	1994Q2	178
1960Q3	43	0.000420	1977Q3	111	0.000219	1994Q3	179
1960Q4	44	0.000425	1977Q4	112	0.000219	1994Q4	180



1961Q1	45	0.000423	1978Q1	113	0.000218	1995Q1	181
1961Q2	46	0.000415	1978Q2	114	0.000210	1995Q2	182
1961Q3	47	0.000408	1978Q3	115	0.000208	1995Q3	183
1961Q4	48	0.000400	1978Q4	116	0.000205	1995Q4	184
1962Q1	49	0.000393	1979Q1	117	0.000205	1996Q1	185
1962Q2	50	0.000389	1979Q2	118	0.000204	1996Q2	186
1962Q3	51	0.000385	1979Q3	119	0.000203	1996Q3	187
1962Q4	52	0.000384	1979Q4	120	0.000202	1996Q4	188
1963Q1	53	0.000380	1980Q1	121	0.000202	1997Q1	189
1963Q2	54	0.000375	1980Q2	122	0.000206	1997Q2	190
1963Q3	55	0.000368	1980Q3	123	0.000206	1997Q3	191
1963Q4	56	0.000365	1980Q4	124	0.000203	1997Q4	192
1964Q1	57	0.000357	1981Q1	125	0.000199	1998Q1	193
1964Q2	58	0.000353	1981Q2	126	0.000200	1998Q2	194
1964Q3	59	0.000348	1981Q3	127	0.000198	1998Q3	195
1964Q4	60	0.000347	1981Q4	128	0.000200	1998Q4	196
1965Q1	61	0.000339	1982Q1	129	0.000203	1999Q1	197
1965Q2	62	0.000334	1982Q2	130	0.000203	1999Q2	198
1965Q3	63	0.000328	1982Q3	131	0.000204	1999Q3	199
1965Q4	64	0.000320	1982Q4	132	0.000203	1999Q4	200
1966Q1	65	0.000312	1983Q1	133	0.000201	2000Q1	201
1966Q2	66	0.000311	1983Q2	134	0.000196	2000Q2	202
1966Q3	67	0.000309	1983Q3	135	0.000193	2000Q3	203
1966Q4	68	0.000307	1983Q4	136	0.000189	2000Q4	204
dílčí součty:		<b>0.030280</b>			<b>0.016310</b>		

<i>parametr</i> <i>beta</i>	=	0.468300094	<b>0.9889054</b>	= b1
<i>parametr</i> <i>alfa</i>	=	-0.03968459	<b>0.0005544</b>	= b0
<i>parametr</i> <i>gama</i>	=	0.026273203	<b>0.0000589</b>	= b2







rec.hodnota	realGDP
0.000185	1610.5
0.000182	1658.8
0.000180	1723
0.000179	1753.9
0.000178	1773.5
0.000176	1803.7
0.000174	1839.8
0.000172	1843.3
0.000171	1864.7
0.000170	1866.2
0.000168	1878
0.000168	1940.2
0.000166	1976
0.000165	1992.2
0.000163	1979.5
0.000160	1947.8
0.000159	1938.1
0.000157	1941
0.000157	1962
0.000155	2000.9
0.000153	2058.1
0.000152	2091
0.000151	2118.9
0.000151	2130.1
0.000149	2121
0.000149	2137.7
0.000149	2135.3
0.000150	2170.4
0.000151	2182.7
0.000150	2177.7
0.000150	2198.9
0.000149	2176
0.000147	2117.4
0.000146	2129.7
0.000145	2177.5
0.000143	2226.5
0.000143	2273
0.000142	2332.4
0.000142	2331.4
0.000139	2339.1
0.000138	2391
0.000136	2379.2
0.000136	2383.6
0.000134	2352.9

hodnota	hodnota	hodnota	realGDP	pořadí
1610.5	3291.8	5402.3	1610.5	1
1658.8	3289.7	5493.8	1658.8	2
1723	3313.5	5541.3	1723	3
1753.9	3338.3	5583.1	1753.9	4
1773.5	3406.2	5629.7	1773.5	5
1803.7	3464.8	5673.8	1803.7	6
1839.8	3489.2	5758.6	1839.8	7
1843.3	3504.1	5806	1843.3	8
1864.7	3558.3	5858.9	1864.7	9
1866.2	3567.6	5883.3	1866.2	10
1878	3588.3	5937.9	1878	11
1940.2	3571.4	5969.5	1940.2	12
1976	3566.5	6013.3	1976	13
1992.2	3573.9	6077.2	1992.2	14
1979.5	3605.2	6128.1	1979.5	15
1947.8	3566.5	6234.4	1947.8	16
1938.1	3666.1	6275.9	1938.1	17
1941	3686.2	6349.8	1941	18
1962	3714.5	6382.3	1962	19
2000.9	3723.8	6465.2	2000.9	20
2058.1	3796.9	6543.8	2058.1	21
2091	3883.8	6579.4	2091	22
2118.9	3922.3	6610.6	2118.9	23
2130.1	3990.5	6633.5	2130.1	24
2121	4092.3	6716.3	2121	25
2137.7	4133.3	6731.7	2137.7	26
2135.3	4117	6719.4	2135.3	27
2170.4	4151.1	6664.2	2170.4	28
2182.7	4119.3	6631.4	2182.7	29
2177.7	4130.4	6668.5	2177.7	30
2198.9	4084.5	6684.9	2198.9	31
2176	4062	6720.9	2176	32
2117.4	4010	6783.3	2117.4	33
2129.7	4045.2	6846.8	2129.7	34
2177.5	4115.4	6899.7	2177.5	35
2226.5	4167.2	6990.6	2226.5	36
2273	4266.1	6988.7	2273	37
2332.4	4301.5	7031.2	2332.4	38
2331.4	4321.9	7062	2331.4	39
2339.1	4357.4	7168.7	2339.1	40
2391	4410.5	7229.4	2391	41
2379.2	4489.8	7330.2	2379.2	42
2383.6	4570.6	7370.2	2383.6	43
2352.9	4576.1	7461.1	2352.9	44

0.000134	2366.5
0.000133	2410.8
0.000132	2450.4
0.000131	2500.4
0.000130	2544
0.000128	2571.5
0.000128	2596.8
0.000126	2603.3
0.000125	2634.1
0.000123	2668.4
0.000122	2719.6
0.000121	2739.4
0.000119	2800.5
0.000118	2833.8
0.000117	2872
0.000115	2879.5
0.000115	2950.1
0.000114	2989.9
0.000113	3050.7
0.000110	3123.6
0.000110	3201.1
0.000108	3213.2
0.000108	3233.6
0.000107	3261.8
<b>0.009768</b>	3291.8
	3289.7
	3313.5
	3338.3
	3406.2
	3464.8
	3489.2
	3504.1
	3558.3
	3567.6
	3588.3
	3571.4
	3566.5
	3573.9
	3605.2
	3566.5
	3666.1
	3686.2
	3714.5
	3723.8
	3796.9

2366.5	4588.9	7488.7	2366.5	45
2410.8	4765.7	7503.3	2410.8	46
2450.4	4811.7	7561.4	2450.4	47
2500.4	4876	7621.9	2500.4	48
2544	4888.3	7676.4	2544	49
2571.5	4891.4	7802.9	2571.5	50
2596.8	4926.2	7841.9	2596.8	51
2603.3	4942.6	7931.3	2603.3	52
2634.1	4958.9	8016.4	2634.1	53
2668.4	4857.8	8131.9	2668.4	54
2719.6	4850.3	8216.6	2719.6	55
2739.4	4936.6	8272.9	2739.4	56
2800.5	5032.5	8396.3	2800.5	57
2833.8	4997.3	8442.9	2833.8	58
2872	5056.8	8528.5	2872	59
2879.5	4997.1	8667.9	2879.5	60
2950.1	4914.3	8733.5	2950.1	61
2989.9	4935.5	8771.2	2989.9	62
3050.7	4912.1	8871.5	3050.7	63
3123.6	4915.6	9049.9	3123.6	64
3201.1	4972.4	9102.5	3201.1	65
3213.2	5089.8	9229.4	3213.2	66
3233.6	5180.4	9260.1	3233.6	67
3261.8	5286.8	9303.9	3261.8	68
			3291.8	69
			3289.7	70
			3313.5	71
			3338.3	72
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			3489.2	75
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			3558.3	77
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			3588.3	79
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			3573.9	82
			3605.2	83
			3566.5	84
			3666.1	85
			3686.2	86
			3714.5	87
			3723.8	88
			3796.9	89

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4811.7	115
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4935.5	130
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4972.4	133
5089.8	134

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5806	144
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6668.5	166
6684.9	167
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6783.3	169
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6899.7	171
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6988.7	173
7031.2	174
7062	175
7168.7	176
7229.4	177
7330.2	178
7370.2	179



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7503.3
7561.4
7621.9
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8733.5
8771.2
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9049.9
9102.5
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9260.1
9303.9

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7503.3	182
7561.4	183
7621.9	184
7676.4	185
7802.9	186
7841.9	187
7931.3	188
8016.4	189
8131.9	190
8216.6	191
8272.9	192
8396.3	193
8442.9	194
8528.5	195
8667.9	196
8733.5	197
8771.2	198
8871.5	199
9049.9	200
9102.5	201
9229.4	202
9260.1	203
9303.9	204

čtvrtletí	pořadí	hodnota	čtvrtletí	pořadí	hodnota	čtvrtletí	pořadí
1950Q1	1	7.3843	1967Q1	69	8.0992	1984Q1	137
1950Q2	2	7.4138	1967Q2	70	8.0986	1984Q2	138
1950Q3	3	7.4518	1967Q3	71	8.1058	1984Q3	139
1950Q4	4	7.4696	1967Q4	72	8.1132	1984Q4	140
1951Q1	5	7.4807	1968Q1	73	8.1334	1985Q1	141
1951Q2	6	7.4976	1968Q2	74	8.1504	1985Q2	142
1951Q3	7	7.5174	1968Q3	75	8.1574	1985Q3	143
1951Q4	8	7.5193	1968Q4	76	8.1617	1985Q4	144
1952Q1	9	7.5309	1969Q1	77	8.1770	1986Q1	145
1952Q2	10	7.5317	1969Q2	78	8.1796	1986Q2	146
1952Q3	11	7.5380	1969Q3	79	8.1854	1986Q3	147
1952Q4	12	7.5705	1969Q4	80	8.1807	1986Q4	148
1953Q1	13	7.5888	1970Q1	81	8.1793	1987Q1	149
1953Q2	14	7.5970	1970Q2	82	8.1814	1987Q2	150
1953Q3	15	7.5906	1970Q3	83	8.1901	1987Q3	151
1953Q4	16	7.5745	1970Q4	84	8.1793	1987Q4	152
1954Q1	17	7.5695	1971Q1	85	8.2069	1988Q1	153
1954Q2	18	7.5710	1971Q2	86	8.2124	1988Q2	154
1954Q3	19	7.5817	1971Q3	87	8.2200	1988Q3	155
1954Q4	20	7.6014	1971Q4	88	8.2225	1988Q4	156
1955Q1	21	7.6295	1972Q1	89	8.2419	1989Q1	157
1955Q2	22	7.6454	1972Q2	90	8.2646	1989Q2	158
1955Q3	23	7.6587	1972Q3	91	8.2744	1989Q3	159
1955Q4	24	7.6639	1972Q4	92	8.2917	1989Q4	160
1956Q1	25	7.6596	1973Q1	93	8.3169	1990Q1	161
1956Q2	26	7.6675	1973Q2	94	8.3268	1990Q2	162
1956Q3	27	7.6664	1973Q3	95	8.3229	1990Q3	163
1956Q4	28	7.6827	1973Q4	96	8.3311	1990Q4	164
1957Q1	29	7.6883	1974Q1	97	8.3234	1991Q1	165
1957Q2	30	7.6860	1974Q2	98	8.3261	1991Q2	166
1957Q3	31	7.6957	1974Q3	99	8.3150	1991Q3	167
1957Q4	32	7.6852	1974Q4	100	8.3094	1991Q4	168
1958Q1	33	7.6579	1975Q1	101	8.2965	1992Q1	169
1958Q2	34	7.6637	1975Q2	102	8.3053	1992Q2	170
1958Q3	35	7.6859	1975Q3	103	8.3225	1992Q3	171
1958Q4	36	7.7082	1975Q4	104	8.3350	1992Q4	172
1959Q1	37	7.7289	1976Q1	105	8.3585	1993Q1	173
1959Q2	38	7.7547	1976Q2	106	8.3667	1993Q2	174
1959Q3	39	7.7542	1976Q3	107	8.3715	1993Q3	175
1959Q4	40	7.7575	1976Q4	108	8.3796	1993Q4	176
1960Q1	41	7.7795	1977Q1	109	8.3917	1994Q1	177
1960Q2	42	7.7745	1977Q2	110	8.4096	1994Q2	178
1960Q3	43	7.7764	1977Q3	111	8.4274	1994Q3	179
1960Q4	44	7.7634	1977Q4	112	8.4286	1994Q4	180

1961Q1	45	7.7692	1978Q1	113	8.4314	1995Q1	181
1961Q2	46	7.7877	1978Q2	114	8.4692	1995Q2	182
1961Q3	47	7.8040	1978Q3	115	8.4788	1995Q3	183
1961Q4	48	7.8242	1978Q4	116	8.4921	1995Q4	184
1962Q1	49	7.8415	1979Q1	117	8.4946	1996Q1	185
1962Q2	50	7.8522	1979Q2	118	8.4952	1996Q2	186
1962Q3	51	7.8620	1979Q3	119	8.5023	1996Q3	187
1962Q4	52	7.8645	1979Q4	120	8.5056	1996Q4	188
1963Q1	53	7.8763	1980Q1	121	8.5089	1997Q1	189
1963Q2	54	7.8892	1980Q2	122	8.4883	1997Q2	190
1963Q3	55	7.9082	1980Q3	123	8.4868	1997Q3	191
1963Q4	56	7.9155	1980Q4	124	8.5044	1997Q4	192
1964Q1	57	7.9376	1981Q1	125	8.5237	1998Q1	193
1964Q2	58	7.9494	1981Q2	126	8.5167	1998Q2	194
1964Q3	59	7.9628	1981Q3	127	8.5285	1998Q3	195
1964Q4	60	7.9654	1981Q4	128	8.5166	1998Q4	196
1965Q1	61	7.9896	1982Q1	129	8.4999	1999Q1	197
1965Q2	62	8.0030	1982Q2	130	8.5042	1999Q2	198
1965Q3	63	8.0231	1982Q3	131	8.4995	1999Q3	199
1965Q4	64	8.0467	1982Q4	132	8.5002	1999Q4	200
1966Q1	65	8.0712	1983Q1	133	8.5117	2000Q1	201
1966Q2	66	8.0750	1983Q2	134	8.5350	2000Q2	202
1966Q3	67	8.0814	1983Q3	135	8.5526	2000Q3	203
1966Q4	68	8.0900	1983Q4	136	8.5730	2000Q4	204
dílčí součty:		<b>525.8036</b>			<b>567.4908</b>		

<i>parametr</i> <i>beta</i>	=	0.837817999	<b>0.9974011</b>	= b1
<i>parametr</i> <i>alfa</i>	=	-0.09906319	<b>-4.129661</b>	= b0
<i>parametr</i> <i>gama</i>	=	-257.039275	<b>11.512396</b>	= b2







hodnota	realGDP
8.5946	1610.5
8.6114	1658.8
8.6200	1723
8.6275	1753.9
8.6358	1773.5
8.6436	1803.7
8.6584	1839.8
8.6666	1843.3
8.6757	1864.7
8.6799	1866.2
8.6891	1878
8.6944	1940.2
8.7017	1976
8.7123	1992.2
8.7206	1979.5
8.7378	1947.8
8.7445	1938.1
8.7562	1941
8.7613	1962
8.7742	2000.9
8.7863	2058.1
8.7917	2091
8.7964	2118.9
8.7999	2130.1
8.8123	2121
8.8146	2137.7
8.8128	2135.3
8.8045	2170.4
8.7996	2182.7
8.8052	2177.7
8.8076	2198.9
8.8130	2176
8.8222	2117.4
8.8315	2129.7
8.8392	2177.5
8.8523	2226.5
8.8520	2273
8.8581	2332.4
8.8625	2331.4
8.8775	2339.1
8.8859	2391
8.8998	2379.2
8.9052	2383.6
8.9175	2352.9

hodnota	hodnota	hodnota	realGDP	pořadí
1610.5	3291.8	5402.3	1610.5	1
1658.8	3289.7	5493.8	1658.8	2
1723	3313.5	5541.3	1723	3
1753.9	3338.3	5583.1	1753.9	4
1773.5	3406.2	5629.7	1773.5	5
1803.7	3464.8	5673.8	1803.7	6
1839.8	3489.2	5758.6	1839.8	7
1843.3	3504.1	5806	1843.3	8
1864.7	3558.3	5858.9	1864.7	9
1866.2	3567.6	5883.3	1866.2	10
1878	3588.3	5937.9	1878	11
1940.2	3571.4	5969.5	1940.2	12
1976	3566.5	6013.3	1976	13
1992.2	3573.9	6077.2	1992.2	14
1979.5	3605.2	6128.1	1979.5	15
1947.8	3566.5	6234.4	1947.8	16
1938.1	3666.1	6275.9	1938.1	17
1941	3686.2	6349.8	1941	18
1962	3714.5	6382.3	1962	19
2000.9	3723.8	6465.2	2000.9	20
2058.1	3796.9	6543.8	2058.1	21
2091	3883.8	6579.4	2091	22
2118.9	3922.3	6610.6	2118.9	23
2130.1	3990.5	6633.5	2130.1	24
2121	4092.3	6716.3	2121	25
2137.7	4133.3	6731.7	2137.7	26
2135.3	4117	6719.4	2135.3	27
2170.4	4151.1	6664.2	2170.4	28
2182.7	4119.3	6631.4	2182.7	29
2177.7	4130.4	6668.5	2177.7	30
2198.9	4084.5	6684.9	2198.9	31
2176	4062	6720.9	2176	32
2117.4	4010	6783.3	2117.4	33
2129.7	4045.2	6846.8	2129.7	34
2177.5	4115.4	6899.7	2177.5	35
2226.5	4167.2	6990.6	2226.5	36
2273	4266.1	6988.7	2273	37
2332.4	4301.5	7031.2	2332.4	38
2331.4	4321.9	7062	2331.4	39
2339.1	4357.4	7168.7	2339.1	40
2391	4410.5	7229.4	2391	41
2379.2	4489.8	7330.2	2379.2	42
2383.6	4570.6	7370.2	2383.6	43
2352.9	4576.1	7461.1	2352.9	44

8.9212	2366.5
8.9231	2410.8
8.9308	2450.4
8.9388	2500.4
8.9459	2544
8.9623	2571.5
8.9672	2596.8
8.9786	2603.3
8.9892	2634.1
9.0035	2668.4
9.0139	2719.6
9.0207	2739.4
9.0355	2800.5
9.0411	2833.8
9.0512	2872
9.0674	2879.5
9.0749	2950.1
9.0792	2989.9
9.0906	3050.7
9.1105	3123.6
9.1163	3201.1
9.1301	3213.2
9.1335	3233.6
9.1382	3261.8
<b>602.4170</b>	3291.8
	3289.7
	3313.5
	3338.3
	3406.2
	3464.8
	3489.2
	3504.1
	3558.3
	3567.6
	3588.3
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	3566.5
	3573.9
	3605.2
	3566.5
	3666.1
	3686.2
	3714.5
	3723.8
	3796.9

2366.5	4588.9	7488.7	2366.5	45
2410.8	4765.7	7503.3	2410.8	46
2450.4	4811.7	7561.4	2450.4	47
2500.4	4876	7621.9	2500.4	48
2544	4888.3	7676.4	2544	49
2571.5	4891.4	7802.9	2571.5	50
2596.8	4926.2	7841.9	2596.8	51
2603.3	4942.6	7931.3	2603.3	52
2634.1	4958.9	8016.4	2634.1	53
2668.4	4857.8	8131.9	2668.4	54
2719.6	4850.3	8216.6	2719.6	55
2739.4	4936.6	8272.9	2739.4	56
2800.5	5032.5	8396.3	2800.5	57
2833.8	4997.3	8442.9	2833.8	58
2872	5056.8	8528.5	2872	59
2879.5	4997.1	8667.9	2879.5	60
2950.1	4914.3	8733.5	2950.1	61
2989.9	4935.5	8771.2	2989.9	62
3050.7	4912.1	8871.5	3050.7	63
3123.6	4915.6	9049.9	3123.6	64
3201.1	4972.4	9102.5	3201.1	65
3213.2	5089.8	9229.4	3213.2	66
3233.6	5180.4	9260.1	3233.6	67
3261.8	5286.8	9303.9	3261.8	68
			3291.8	69
			3289.7	70
			3313.5	71
			3338.3	72
			3406.2	73
			3464.8	74
			3489.2	75
			3504.1	76
			3558.3	77
			3567.6	78
			3588.3	79
			3571.4	80
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			3605.2	83
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			3686.2	86
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5806	144
5858.9	145
5883.3	146
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5969.5	148
6013.3	149
6077.2	150
6128.1	151
6234.4	152
6275.9	153
6349.8	154
6382.3	155
6465.2	156
6543.8	157
6579.4	158
6610.6	159
6633.5	160
6716.3	161
6731.7	162
6719.4	163
6664.2	164
6631.4	165
6668.5	166
6684.9	167
6720.9	168
6783.3	169
6846.8	170
6899.7	171
6990.6	172
6988.7	173
7031.2	174
7062	175
7168.7	176
7229.4	177
7330.2	178
7370.2	179

7461.1
7488.7
7503.3
7561.4
7621.9
7676.4
7802.9
7841.9
7931.3
8016.4
8131.9
8216.6
8272.9
8396.3
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8667.9
8733.5
8771.2
8871.5
9049.9
9102.5
9229.4
9260.1
9303.9

7461.1	180
7488.7	181
7503.3	182
7561.4	183
7621.9	184
7676.4	185
7802.9	186
7841.9	187
7931.3	188
8016.4	189
8131.9	190
8216.6	191
8272.9	192
8396.3	193
8442.9	194
8528.5	195
8667.9	196
8733.5	197
8771.2	198
8871.5	199
9049.9	200
9102.5	201
9229.4	202
9260.1	203
9303.9	204

čtvrtletí	pořadí	realGDP	vyrovnání	rezidua	abs.rezidua	rezidua^2
1950Q1	1	1610.5	1647.042	-36.542	36.542	1335.30
1950Q2	2	1658.8	1663.709	-4.909	4.909	24.10
1950Q3	3	1723	1680.527	42.473	42.473	1803.95
1950Q4	4	1753.9	1697.496	56.404	56.404	3181.42
1951Q1	5	1773.5	1714.617	58.883	58.883	3467.22
1951Q2	6	1803.7	1731.891	71.809	71.809	5156.52
1951Q3	7	1839.8	1749.319	90.481	90.481	8186.76
1951Q4	8	1843.3	1766.903	76.397	76.397	5836.57
1952Q1	9	1864.7	1784.642	80.058	80.058	6409.31
1952Q2	10	1866.2	1802.538	63.662	63.662	4052.83
1952Q3	11	1878	1820.592	57.408	57.408	3295.63
1952Q4	12	1940.2	1838.806	101.394	101.394	10280.83
1953Q1	13	1976	1857.179	118.821	118.821	14118.52
1953Q2	14	1992.2	1875.713	116.487	116.487	13569.33
1953Q3	15	1979.5	1894.408	85.092	85.092	7240.61
1953Q4	16	1947.8	1913.267	34.533	34.533	1192.55
1954Q1	17	1938.1	1932.289	5.811	5.811	33.77
1954Q2	18	1941	1951.475	-10.475	10.475	109.73
1954Q3	19	1962	1970.828	-8.828	8.828	77.93
1954Q4	20	2000.9	1990.346	10.554	10.554	111.38
1955Q1	21	2058.1	2010.033	48.067	48.067	2310.47
1955Q2	22	2091	2029.887	61.113	61.113	3734.78
1955Q3	23	2118.9	2049.911	68.989	68.989	4759.48
1955Q4	24	2130.1	2070.105	59.995	59.995	3599.41
1956Q1	25	2121	2090.470	30.530	30.530	932.08
1956Q2	26	2137.7	2111.007	26.693	26.693	712.52
1956Q3	27	2135.3	2131.717	3.583	3.583	12.84
1956Q4	28	2170.4	2152.600	17.800	17.800	316.82
1957Q1	29	2182.7	2173.659	9.041	9.041	81.74
1957Q2	30	2177.7	2194.893	-17.193	17.193	295.58
1957Q3	31	2198.9	2216.303	-17.403	17.403	302.85
1957Q4	32	2176	2237.890	-61.890	61.890	3830.38
1958Q1	33	2117.4	2259.656	-142.256	142.256	20236.63
1958Q2	34	2129.7	2281.600	-151.900	151.900	23073.58
1958Q3	35	2177.5	2303.724	-126.224	126.224	15932.50
1958Q4	36	2226.5	2326.029	-99.529	99.529	9905.97
1959Q1	37	2273	2348.515	-75.515	75.515	5702.49
1959Q2	38	2332.4	2371.183	-38.783	38.783	1504.13
1959Q3	39	2331.4	2394.034	-62.634	62.634	3923.07
1959Q4	40	2339.1	2417.070	-77.970	77.970	6079.24
1960Q1	41	2391	2440.289	-49.289	49.289	2429.42
1960Q2	42	2379.2	2463.694	-84.494	84.494	7139.25
1960Q3	43	2383.6	2487.285	-103.685	103.685	10750.60
1960Q4	44	2352.9	2511.063	-158.163	158.163	25015.51

1961Q1	45	2366.5	2535.028	-168.528	168.528	28401.79
1961Q2	46	2410.8	2559.182	-148.382	148.382	22017.20
1961Q3	47	2450.4	2583.525	-133.125	133.125	17722.14
1961Q4	48	2500.4	2608.057	-107.657	107.657	11589.99
1962Q1	49	2544	2632.779	-88.779	88.779	7881.78
1962Q2	50	2571.5	2657.693	-86.193	86.193	7429.24
1962Q3	51	2596.8	2682.798	-85.998	85.998	7395.71
1962Q4	52	2603.3	2708.096	-104.796	104.796	10982.18
1963Q1	53	2634.1	2733.586	-99.486	99.486	9897.55
1963Q2	54	2668.4	2759.270	-90.870	90.870	8257.44
1963Q3	55	2719.6	2785.149	-65.549	65.549	4296.63
1963Q4	56	2739.4	2811.222	-71.822	71.822	5158.34
1964Q1	57	2800.5	2837.490	-36.990	36.990	1368.24
1964Q2	58	2833.8	2863.954	-30.154	30.154	909.25
1964Q3	59	2872	2890.614	-18.614	18.614	346.49
1964Q4	60	2879.5	2917.471	-37.971	37.971	1441.83
1965Q1	61	2950.1	2944.526	5.574	5.574	31.07
1965Q2	62	2989.9	2971.779	18.121	18.121	328.39
1965Q3	63	3050.7	2999.229	51.471	51.471	2649.22
1965Q4	64	3123.6	3026.879	96.721	96.721	9354.95
1966Q1	65	3201.1	3054.728	146.372	146.372	21424.82
1966Q2	66	3213.2	3082.776	130.424	130.424	17010.37
1966Q3	67	3233.6	3111.025	122.575	122.575	15024.73
1966Q4	68	3261.8	3139.473	122.327	122.327	14963.81
1967Q1	69	3291.8	3168.123	123.677	123.677	15296.05
1967Q2	70	3289.7	3196.973	92.727	92.727	8598.24
1967Q3	71	3313.5	3226.025	87.475	87.475	7651.84
1967Q4	72	3338.3	3255.279	83.021	83.021	6892.54
1968Q1	73	3406.2	3284.734	121.466	121.466	14753.96
1968Q2	74	3464.8	3314.392	150.408	150.408	22622.66
1968Q3	75	3489.2	3344.252	144.948	144.948	21010.03
1968Q4	76	3504.1	3374.314	129.786	129.786	16844.37
1969Q1	77	3558.3	3404.579	153.721	153.721	23630.01
1969Q2	78	3567.6	3435.048	132.552	132.552	17570.13
1969Q3	79	3588.3	3465.719	122.581	122.581	15026.13
1969Q4	80	3571.4	3496.593	74.807	74.807	5596.05
1970Q1	81	3566.5	3527.671	38.829	38.829	1507.70
1970Q2	82	3573.9	3558.952	14.948	14.948	223.45
1970Q3	83	3605.2	3590.436	14.764	14.764	217.97
1970Q4	84	3566.5	3622.124	-55.624	55.624	3094.00
1971Q1	85	3666.1	3654.015	12.085	12.085	146.06
1971Q2	86	3686.2	3686.109	0.091	0.091	0.01
1971Q3	87	3714.5	3718.406	-3.906	3.906	15.26
1971Q4	88	3723.8	3750.907	-27.107	27.107	734.78
1972Q1	89	3796.9	3783.610	13.290	13.290	176.61

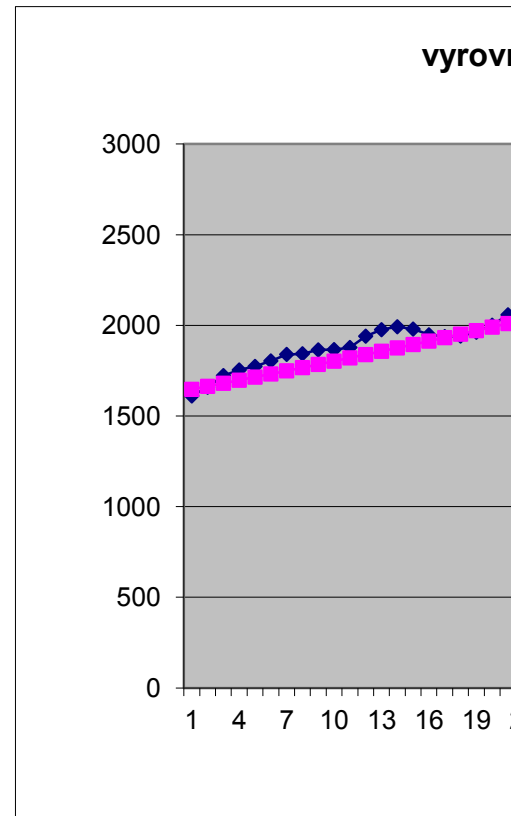
1972Q2	90	3883.8	3816.517	67.283	67.283	4527.01
1972Q3	91	3922.3	3849.626	72.674	72.674	5281.50
1972Q4	92	3990.5	3882.938	107.562	107.562	11569.65
1973Q1	93	4092.3	3916.452	175.848	175.848	30922.66
1973Q2	94	4133.3	3950.168	183.132	183.132	33537.51
1973Q3	95	4117	3984.085	132.915	132.915	17666.36
1973Q4	96	4151.1	4018.204	132.896	132.896	17661.31
1974Q1	97	4119.3	4052.524	66.776	66.776	4459.00
1974Q2	98	4130.4	4087.045	43.355	43.355	1879.66
1974Q3	99	4084.5	4121.766	-37.266	37.266	1388.76
1974Q4	100	4062	4156.687	-94.687	94.687	8965.62
1975Q1	101	4010	4191.807	-181.807	181.807	33053.89
1975Q2	102	4045.2	4227.127	-181.927	181.927	33097.25
1975Q3	103	4115.4	4262.644	-147.244	147.244	21680.82
1975Q4	104	4167.2	4298.360	-131.160	131.160	17202.82
1976Q1	105	4266.1	4334.272	-68.172	68.172	4647.45
1976Q2	106	4301.5	4370.381	-68.881	68.881	4744.66
1976Q3	107	4321.9	4406.687	-84.787	84.787	7188.79
1976Q4	108	4357.4	4443.187	-85.787	85.787	7359.47
1977Q1	109	4410.5	4479.882	-69.382	69.382	4813.93
1977Q2	110	4489.8	4516.772	-26.972	26.972	727.46
1977Q3	111	4570.6	4553.854	16.746	16.746	280.44
1977Q4	112	4576.1	4591.128	-15.028	15.028	225.84
1978Q1	113	4588.9	4628.594	-39.694	39.694	1575.60
1978Q2	114	4765.7	4666.250	99.450	99.450	9890.26
1978Q3	115	4811.7	4704.096	107.604	107.604	11578.57
1978Q4	116	4876	4742.131	133.869	133.869	17920.91
1979Q1	117	4888.3	4780.354	107.946	107.946	11652.44
1979Q2	118	4891.4	4818.763	72.637	72.637	5276.17
1979Q3	119	4926.2	4857.358	68.842	68.842	4739.25
1979Q4	120	4942.6	4896.137	46.463	46.463	2158.77
1980Q1	121	4958.9	4935.101	23.799	23.799	566.41
1980Q2	122	4857.8	4974.246	-116.446	116.446	13559.70
1980Q3	123	4850.3	5013.573	-163.273	163.273	26658.05
1980Q4	124	4936.6	5053.080	-116.480	116.480	13567.54
1981Q1	125	5032.5	5092.765	-60.265	60.265	3631.92
1981Q2	126	4997.3	5132.629	-135.329	135.329	18313.84
1981Q3	127	5056.8	5172.668	-115.868	115.868	13425.40
1981Q4	128	4997.1	5212.882	-215.782	215.782	46562.01
1982Q1	129	4914.3	5253.270	-338.970	338.970	114900.75
1982Q2	130	4935.5	5293.830	-358.330	358.330	128400.43
1982Q3	131	4912.1	5334.561	-422.461	422.461	178473.01
1982Q4	132	4915.6	5375.460	-459.860	459.860	211471.65
1983Q1	133	4972.4	5416.528	-444.128	444.128	197249.66
1983Q2	134	5089.8	5457.762	-367.962	367.962	135395.77

1983Q3	135	5180.4	5499.160	-318.760	318.760	101607.87
1983Q4	136	5286.8	5540.721	-253.921	253.921	64475.95
1984Q1	137	5402.3	5582.444	-180.144	180.144	32451.77
1984Q2	138	5493.8	5624.326	-130.526	130.526	17037.04
1984Q3	139	5541.3	5666.366	-125.066	125.066	15641.57
1984Q4	140	5583.1	5708.563	-125.463	125.463	15740.90
1985Q1	141	5629.7	5750.914	-121.214	121.214	14692.76
1985Q2	142	5673.8	5793.417	-119.617	119.617	14308.31
1985Q3	143	5758.6	5836.072	-77.472	77.472	6001.88
1985Q4	144	5806	5878.875	-72.875	72.875	5310.80
1986Q1	145	5858.9	5921.826	-62.926	62.926	3959.66
1986Q2	146	5883.3	5964.921	-81.621	81.621	6662.07
1986Q3	147	5937.9	6008.160	-70.260	70.260	4936.52
1986Q4	148	5969.5	6051.540	-82.040	82.040	6730.63
1987Q1	149	6013.3	6095.060	-81.760	81.760	6684.65
1987Q2	150	6077.2	6138.716	-61.516	61.516	3784.23
1987Q3	151	6128.1	6182.508	-54.408	54.408	2960.18
1987Q4	152	6234.4	6226.432	7.968	7.968	63.49
1988Q1	153	6275.9	6270.487	5.413	5.413	29.30
1988Q2	154	6349.8	6314.671	35.129	35.129	1234.05
1988Q3	155	6382.3	6358.981	23.319	23.319	543.76
1988Q4	156	6465.2	6403.416	61.784	61.784	3817.30
1989Q1	157	6543.8	6447.972	95.828	95.828	9182.98
1989Q2	158	6579.4	6492.648	86.752	86.752	7525.86
1989Q3	159	6610.6	6537.442	73.158	73.158	5352.13
1989Q4	160	6633.5	6582.350	51.150	51.150	2616.30
1990Q1	161	6716.3	6627.371	88.929	88.929	7908.29
1990Q2	162	6731.7	6672.503	59.197	59.197	3504.29
1990Q3	163	6719.4	6717.742	1.658	1.658	2.75
1990Q4	164	6664.2	6763.087	-98.887	98.887	9778.64
1991Q1	165	6631.4	6808.535	-177.135	177.135	31376.72
1991Q2	166	6668.5	6854.083	-185.583	185.583	34441.04
1991Q3	167	6684.9	6899.729	-214.829	214.829	46151.57
1991Q4	168	6720.9	6945.471	-224.571	224.571	50432.04
1992Q1	169	6783.3	6991.305	-208.005	208.005	43266.20
1992Q2	170	6846.8	7037.230	-190.430	190.430	36263.62
1992Q3	171	6899.7	7083.243	-183.543	183.543	33687.89
1992Q4	172	6990.6	7129.340	-138.740	138.740	19248.85
1993Q1	173	6988.7	7175.520	-186.820	186.820	34901.81
1993Q2	174	7031.2	7221.780	-190.580	190.580	36320.77
1993Q3	175	7062	7268.117	-206.117	206.117	42484.22
1993Q4	176	7168.7	7314.528	-145.828	145.828	21265.91
1994Q1	177	7229.4	7361.011	-131.611	131.611	17321.55
1994Q2	178	7330.2	7407.563	-77.363	77.363	5985.09
1994Q3	179	7370.2	7454.182	-83.982	83.982	7052.90

1994Q4	180	7461.1	7500.863	-39.763	39.763	1581.11
1995Q1	181	7488.7	7547.605	-58.905	58.905	3469.86
1995Q2	182	7503.3	7594.406	-91.106	91.106	8300.24
1995Q3	183	7561.4	7641.261	-79.861	79.861	6377.75
1995Q4	184	7621.9	7688.168	-66.268	66.268	4391.49
1996Q1	185	7676.4	7735.125	-58.725	58.725	3448.64
1996Q2	186	7802.9	7782.128	20.772	20.772	431.46
1996Q3	187	7841.9	7829.176	12.724	12.724	161.91
1996Q4	188	7931.3	7876.263	55.037	55.037	3029.02
1997Q1	189	8016.4	7923.389	93.011	93.011	8651.00
1997Q2	190	8131.9	7970.550	161.350	161.350	26033.79
1997Q3	191	8216.6	8017.743	198.857	198.857	39544.08
1997Q4	192	8272.9	8064.965	207.935	207.935	43236.84
1998Q1	193	8396.3	8112.214	284.086	284.086	80704.94
1998Q2	194	8442.9	8159.486	283.414	283.414	80323.61
1998Q3	195	8528.5	8206.778	321.722	321.722	103504.91
1998Q4	196	8667.9	8254.088	413.812	413.812	171240.22
1999Q1	197	8733.5	8301.413	432.087	432.087	186699.39
1999Q2	198	8771.2	8348.749	422.451	422.451	178464.86
1999Q3	199	8871.5	8396.094	475.406	475.406	226010.92
1999Q4	200	9049.9	8443.445	606.455	606.455	367788.05
2000Q1	201	9102.5	8490.798	611.702	611.702	374179.03
2000Q2	202	9229.4	8538.152	691.248	691.248	477824.20
2000Q3	203	9260.1	8585.502	674.598	674.598	455082.32
2000Q4	204	9303.9	8632.846	671.054	671.054	450312.81
sumace		930779.7	930686.4799	93.2201 (SE)	24884.066 SAE	6224945.163 SSE
				0.4570 ME	121.981 MAE	30514.437 MSE
						174.684 RMSE
parametr	beta =	0.4683001	0.9889054	= b1		
parametr	alfa =	-0.0396846	0.0005544	= b0		
parametr	gama =	0.0262732	0.0000589	= b2		



APE	MAPE	$y_t^2$	$yv_t^2$
0.023		2593710.25	2712746.50
0.003	0.003	2751617.44	2767928.60
0.025	0.025	2968729.00	2824171.05
0.032	0.033	3076165.21	2881492.34
0.033	0.034	3145302.25	2939911.20
0.040	0.041	3253333.69	2999446.64
0.049	0.050	3384864.04	3060117.94
0.041	0.042	3397754.89	3121944.64
0.043	0.044	3477106.09	3184946.56
0.034	0.035	3482702.44	3249143.79
0.031	0.031	3526884.00	3314556.71
0.052	0.054	3764376.04	3381205.96
0.060	0.062	3904576.00	3449112.48
0.058	0.060	3968860.84	3518297.47
0.043	0.044	3918420.25	3588782.43
0.018	0.018	3793924.84	3660589.13
0.003	0.003	3756231.61	3733739.65
0.005	0.005	3767481.00	3808256.34
0.004	0.004	3849444.00	3884161.84
0.005	0.005	4003600.81	3961479.09
0.023	0.024	4235775.61	4040231.30
0.029	0.030	4372281.00	4120442.01
0.033	0.033	4489737.21	4202135.03
0.028	0.029	4537326.01	4285334.45
0.014	0.014	4498641.00	4370064.70
0.012	0.013	4569761.29	4456350.47
0.002	0.002	4559506.09	4544216.76
0.008	0.008	4710636.16	4633688.86
0.004	0.004	4764179.29	4724792.39
0.008	0.008	4742377.29	4817553.22
0.008	0.008	4835161.21	4911997.56
0.028	0.028	4734976.00	5008151.90
0.067	0.065	4483382.76	5106043.04
0.071	0.069	4535622.09	5205698.06
0.058	0.056	4741506.25	5307144.38
0.045	0.044	4957302.25	5410409.67
0.033	0.033	5166529.00	5515521.94
0.017	0.016	5440089.76	5622509.48
0.027	0.027	5435425.96	5731400.86
0.033	0.033	5471388.81	5842224.99
0.021	0.020	5716881.00	5955011.05
0.036	0.035	5660592.64	6069788.50
0.043	0.043	5681548.96	6186587.13
0.067	0.065	5536138.41	6305437.00



0.071	0.069	5600322.25	6426368.47
0.062	0.060	5811956.64	6549412.17
0.054	0.053	6004460.16	6674599.04
0.043	0.042	6252000.16	6801960.30
0.035	0.034	6471936.00	6931527.45
0.034	0.033	6612612.25	7063332.26
0.033	0.033	6743370.24	7197406.82
0.040	0.039	6777170.89	7333783.43
0.038	0.037	6938482.81	7472494.73
0.034	0.033	7120358.56	7613573.57
0.024	0.024	7396224.16	7757053.12
0.026	0.026	7504312.36	7902966.78
0.013	0.013	7842800.25	8051348.20
0.011	0.011	8030422.44	8202231.33
0.006	0.006	8248384.00	8355650.32
0.013	0.013	8291520.25	8511639.61
0.002	0.002	8703090.01	8670233.86
0.006	0.006	8939502.01	8831467.96
0.017	0.017	9306770.49	8995377.06
0.031	0.031	9756876.96	9161996.51
0.046	0.047	10247041.21	9331361.91
0.041	0.041	10324654.24	9503509.05
0.038	0.039	10456168.96	9678473.96
0.038	0.038	10639339.24	9856292.83
0.038	0.038	10835947.24	10037002.11
0.028	0.029	10822126.09	10220638.40
0.026	0.027	10979282.25	10407238.48
0.025	0.025	11144246.89	10596839.35
0.036	0.036	11602198.44	10789478.14
0.043	0.044	12004839.04	10985192.17
0.042	0.042	12174516.64	11184018.91
0.037	0.038	12278716.81	11385995.96
0.043	0.044	12661498.89	11591161.09
0.037	0.038	12727769.76	11799552.18
0.034	0.035	12875896.89	12011207.25
0.021	0.021	12754897.96	12226164.42
0.011	0.011	12719922.25	12444461.91
0.004	0.004	12772761.21	12666138.06
0.004	0.004	12997467.04	12891231.28
0.016	0.015	12719922.25	13119780.05
0.003	0.003	13440289.21	13351822.93
0.000	0.000	13588070.44	13587398.52
0.001	0.001	13797510.25	13826545.48
0.007	0.007	13866686.44	14069302.49
0.004	0.004	14416449.61	14315708.26

0.017	0.017	15083902.44	14565801.50
0.019	0.019	15384437.29	14819620.95
0.027	0.027	15924090.25	15077205.29
0.043	0.044	16746919.29	15338593.21
0.044	0.045	17084168.89	15603823.35
0.032	0.033	16949689.00	15872934.29
0.032	0.033	17231631.21	16145964.58
0.016	0.016	16968632.49	16422952.65
0.010	0.011	17060204.16	16703936.87
0.009	0.009	16683140.25	16988955.49
0.023	0.023	16499844.00	17278046.65
0.045	0.044	16080100.00	17571248.35
0.045	0.044	16363643.04	17868598.47
0.036	0.035	16936517.16	18170134.68
0.031	0.031	17365555.84	18475894.53
0.016	0.016	18199609.21	18785915.33
0.016	0.016	18502902.25	19100234.21
0.020	0.019	18678819.61	19418888.08
0.020	0.019	18986934.76	19741913.61
0.016	0.016	19452510.25	20069347.20
0.006	0.006	20158304.04	20401225.01
0.004	0.004	20890384.36	20737582.89
0.003	0.003	20940691.21	21078456.40
0.009	0.009	21058003.21	21423880.78
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0.022	0.023	23152456.89	22128521.40
0.027	0.028	23775376.00	22487806.39
0.022	0.022	23895476.89	22851779.68
0.015	0.015	23925793.96	23220474.68
0.014	0.014	24267446.44	23593924.36
0.009	0.009	24429294.76	23972161.25
0.005	0.005	24590689.21	24355217.45
0.024	0.024	23598220.84	24743124.54
0.034	0.033	23525410.09	25135913.66
0.024	0.023	24370019.56	25533615.42
0.012	0.012	25326056.25	25936259.88
0.027	0.027	24973007.29	26343876.61
0.023	0.023	25571226.24	26756494.55
0.043	0.042	24971008.41	27174142.13
0.069	0.067	24150344.49	27596847.12
0.073	0.070	24359160.25	28024636.71
0.086	0.082	24128726.41	28457537.45
0.094	0.089	24163123.36	28895575.23
0.089	0.086	24724761.76	29338775.28
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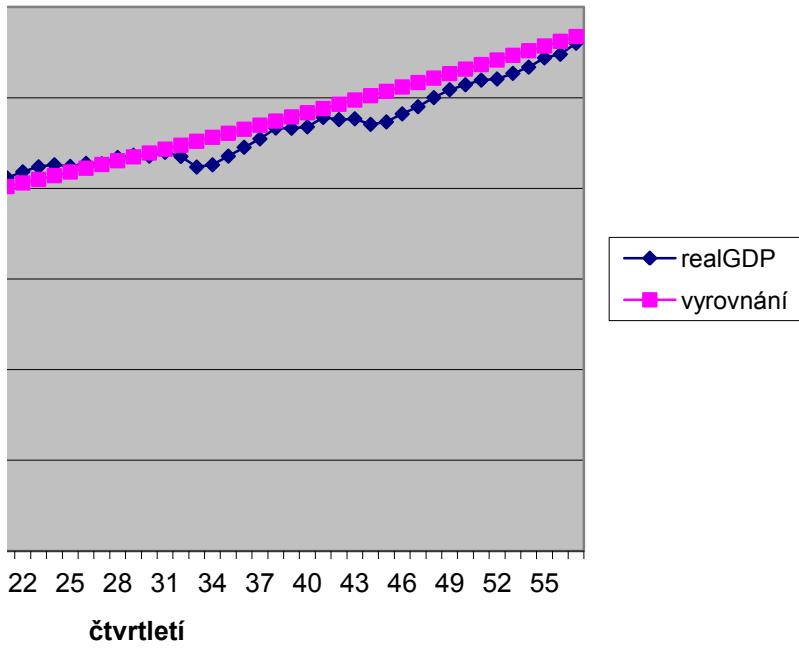
0.062	0.060	26836544.16	30240759.58
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0.024	0.023	30181838.44	31633043.06
0.023	0.022	30706005.69	32107706.57
0.022	0.022	31171005.61	32587688.64
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0.013	0.012	33709636.00	34561174.39
0.011	0.011	34326709.21	35068020.74
0.014	0.014	34613218.89	35580288.20
0.012	0.012	35258656.41	36097990.79
0.014	0.014	35634930.25	36621141.56
0.014	0.014	36159776.89	37149752.65
0.010	0.010	36932359.84	37683835.23
0.009	0.009	37553609.61	38223399.48
0.001	0.001	38867743.36	38768454.63
0.001	0.001	39386920.81	39319008.87
0.006	0.006	40319960.04	39875069.38
0.004	0.004	40733753.29	40436642.33
0.010	0.010	41798811.04	41003732.82
0.015	0.015	42821318.44	41576344.89
0.013	0.013	43288504.36	42154481.54
0.011	0.011	43700032.36	42738144.64
0.008	0.008	44003322.25	43327335.01
0.013	0.013	45108685.69	43922052.33
0.009	0.009	45315784.89	44522295.16
0.000	0.000	45150336.36	45128060.96
0.015	0.015	44411561.64	45739346.02
0.027	0.026	43975465.96	46356145.49
0.028	0.027	44468892.25	46978453.35
0.032	0.032	44687888.01	47606262.43
0.033	0.033	45170496.81	48239564.37
0.031	0.030	46013158.89	48878349.62
0.028	0.027	46878670.24	49522607.44
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0.020	0.020	48868488.36	50827491.84
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0.029	0.029	49871844.00	52825524.87
0.020	0.020	51390259.69	53502324.93
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0.075	0.078
0.073	0.076
0.072	0.075
<b>5.518</b>	<b>5.487</b>
<b>2.705</b>	<b>2.690</b>
<b>MAPE</b>	<b>AMAPE</b>

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56080627.69	56966348.44
56299510.89	57674996.94
57174769.96	58388867.31
58093359.61	59107931.59
58927116.96	59832160.60
60885248.41	60561523.93
61495395.61	61295989.91
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64262668.96	62780097.02
66127797.61	63529668.67
67512515.56	64284204.04
68440874.41	65043665.32
70497853.69	65808013.53
71282560.41	66577208.46
72735312.25	67351208.71
75132490.41	68129971.69
76274022.25	68913453.64
76933949.44	69701609.62
78703512.25	70494393.52
81900690.01	71291758.11
82855506.25	72093654.98
85181824.36	72900034.63
85749452.01	73710846.42
86562555.21	74526038.60
<b>5153991741</b>	<b>5121624735</b>

<b>THEILovoU</b>	<b>0.01740</b>
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## nání logistickým trendem



observ	pořadí	realGDP	32716	32716/y <sub>t</sub>	32716/y <sub>t-1</sub>	ln[32716/y <sub>t-1</sub> ]
1950Q1	1	1610.5	32716	20.314	19.314	2.96084
1950Q2	2	1658.8	32716	19.723	18.723	2.92974
1950Q3	3	1723	32716	18.988	17.988	2.88969
1950Q4	4	1753.9	32716	18.653	17.653	2.87092
1951Q1	5	1773.5	32716	18.447	17.447	2.85918
1951Q2	6	1803.7	32716	18.138	17.138	2.84131
1951Q3	7	1839.8	32716	17.782	16.782	2.82033
1951Q4	8	1843.3	32716	17.749	16.749	2.81831
1952Q1	9	1864.7	32716	17.545	16.545	2.80608
1952Q2	10	1866.2	32716	17.531	16.531	2.80523
1952Q3	11	1878	32716	17.421	16.421	2.79854
1952Q4	12	1940.2	32716	16.862	15.862	2.76394
1953Q1	13	1976	32716	16.557	15.557	2.74449
1953Q2	14	1992.2	32716	16.422	15.422	2.73580
1953Q3	15	1979.5	32716	16.527	15.527	2.74261
1953Q4	16	1947.8	32716	16.796	15.796	2.75978
1954Q1	17	1938.1	32716	16.880	15.880	2.76509
1954Q2	18	1941	32716	16.855	15.855	2.76350
1954Q3	19	1962	32716	16.675	15.675	2.75206
1954Q4	20	2000.9	32716	16.351	15.351	2.73116
1955Q1	21	2058.1	32716	15.896	14.896	2.70111
1955Q2	22	2091	32716	15.646	14.646	2.68417
1955Q3	23	2118.9	32716	15.440	14.440	2.67001
1955Q4	24	2130.1	32716	15.359	14.359	2.66437
1956Q1	25	2121	32716	15.425	14.425	2.66895
1956Q2	26	2137.7	32716	15.304	14.304	2.66056
1956Q3	27	2135.3	32716	15.322	14.322	2.66176
1956Q4	28	2170.4	32716	15.074	14.074	2.64431
1957Q1	29	2182.7	32716	14.989	13.989	2.63826
1957Q2	30	2177.7	32716	15.023	14.023	2.64071
1957Q3	31	2198.9	32716	14.878	13.878	2.63033
1957Q4	32	2176	32716	15.035	14.035	2.64155
1958Q1	33	2117.4	32716	15.451	14.451	2.67077
1958Q2	34	2129.7	32716	15.362	14.362	2.66457
1958Q3	35	2177.5	32716	15.025	14.025	2.64081
1958Q4	36	2226.5	32716	14.694	13.694	2.61695
1959Q1	37	2273	32716	14.393	13.393	2.59476
1959Q2	38	2332.4	32716	14.027	13.027	2.56701
1959Q3	39	2331.4	32716	14.033	13.033	2.56747
1959Q4	40	2339.1	32716	13.987	12.987	2.56392
1960Q1	41	2391	32716	13.683	12.683	2.54026
1960Q2	42	2379.2	32716	13.751	12.751	2.54560
1960Q3	43	2383.6	32716	13.725	12.725	2.54360
1960Q4	44	2352.9	32716	13.905	12.905	2.55758

1961Q1	45	2366.5	32716	13.825	12.825	2.55137
1961Q2	46	2410.8	32716	13.571	12.571	2.53136
1961Q3	47	2450.4	32716	13.351	12.351	2.51376
1961Q4	48	2500.4	32716	13.084	12.084	2.49191
1962Q1	49	2544	32716	12.860	11.860	2.47318
1962Q2	50	2571.5	32716	12.723	11.723	2.46151
1962Q3	51	2596.8	32716	12.599	11.599	2.45088
1962Q4	52	2603.3	32716	12.567	11.567	2.44817
1963Q1	53	2634.1	32716	12.420	11.420	2.43538
1963Q2	54	2668.4	32716	12.261	11.261	2.42130
1963Q3	55	2719.6	32716	12.030	11.030	2.40059
1963Q4	56	2739.4	32716	11.943	10.943	2.39268
1964Q1	57	2800.5	32716	11.682	10.682	2.36858
1964Q2	58	2833.8	32716	11.545	10.545	2.35564
1964Q3	59	2872	32716	11.391	10.391	2.34098
1964Q4	60	2879.5	32716	11.362	10.362	2.33812
1965Q1	61	2950.1	32716	11.090	10.090	2.31152
1965Q2	62	2989.9	32716	10.942	9.942	2.29679
1965Q3	63	3050.7	32716	10.724	9.724	2.27461
1965Q4	64	3123.6	32716	10.474	9.474	2.24853
1966Q1	65	3201.1	32716	10.220	9.220	2.22140
1966Q2	66	3213.2	32716	10.182	9.182	2.21722
1966Q3	67	3233.6	32716	10.118	9.118	2.21020
1966Q4	68	3261.8	32716	10.030	9.030	2.20056
1967Q1	69	3291.8	32716	9.939	8.939	2.19038
1967Q2	70	3289.7	32716	9.945	8.945	2.19109
1967Q3	71	3313.5	32716	9.874	8.874	2.18307
1967Q4	72	3338.3	32716	9.800	8.800	2.17477
1968Q1	73	3406.2	32716	9.605	8.605	2.15232
1968Q2	74	3464.8	32716	9.442	8.442	2.13327
1968Q3	75	3489.2	32716	9.376	8.376	2.12541
1968Q4	76	3504.1	32716	9.336	8.336	2.12064
1969Q1	77	3558.3	32716	9.194	8.194	2.10344
1969Q2	78	3567.6	32716	9.170	8.170	2.10051
1969Q3	79	3588.3	32716	9.117	8.117	2.09401
1969Q4	80	3571.4	32716	9.161	8.161	2.09931
1970Q1	81	3566.5	32716	9.173	8.173	2.10085
1970Q2	82	3573.9	32716	9.154	8.154	2.09853
1970Q3	83	3605.2	32716	9.075	8.075	2.08873
1970Q4	84	3566.5	32716	9.173	8.173	2.10085
1971Q1	85	3666.1	32716	8.924	7.924	2.06989
1971Q2	86	3686.2	32716	8.875	7.875	2.06373
1971Q3	87	3714.5	32716	8.808	7.808	2.05510
1971Q4	88	3723.8	32716	8.786	7.786	2.05228
1972Q1	89	3796.9	32716	8.617	7.617	2.03032



1972Q2	90	3883.8	32716	8.424	7.424	2.00468
1972Q3	91	3922.3	32716	8.341	7.341	1.99348
1972Q4	92	3990.5	32716	8.198	7.198	1.97387
1973Q1	93	4092.3	32716	7.995	6.995	1.94513
1973Q2	94	4133.3	32716	7.915	6.915	1.93373
1973Q3	95	4117	32716	7.947	6.947	1.93825
1973Q4	96	4151.1	32716	7.881	6.881	1.92881
1974Q1	97	4119.3	32716	7.942	6.942	1.93761
1974Q2	98	4130.4	32716	7.921	6.921	1.93453
1974Q3	99	4084.5	32716	8.010	7.010	1.94731
1974Q4	100	4062	32716	8.054	7.054	1.95362
1975Q1	101	4010	32716	8.159	7.159	1.96831
1975Q2	102	4045.2	32716	8.088	7.088	1.95835
1975Q3	103	4115.4	32716	7.950	6.950	1.93869
1975Q4	104	4167.2	32716	7.851	6.851	1.92437
1976Q1	105	4266.1	32716	7.669	6.669	1.89744
1976Q2	106	4301.5	32716	7.606	6.606	1.88794
1976Q3	107	4321.9	32716	7.570	6.570	1.88249
1976Q4	108	4357.4	32716	7.508	6.508	1.87305
1977Q1	109	4410.5	32716	7.418	6.418	1.85907
1977Q2	110	4489.8	32716	7.287	6.287	1.83844
1977Q3	111	4570.6	32716	7.158	6.158	1.81774
1977Q4	112	4576.1	32716	7.149	6.149	1.81634
1978Q1	113	4588.9	32716	7.129	6.129	1.81309
1978Q2	114	4765.7	32716	6.865	5.865	1.76898
1978Q3	115	4811.7	32716	6.799	5.799	1.75773
1978Q4	116	4876	32716	6.710	5.710	1.74215
1979Q1	117	4888.3	32716	6.693	5.693	1.73919
1979Q2	118	4891.4	32716	6.688	5.688	1.73844
1979Q3	119	4926.2	32716	6.641	5.641	1.73010
1979Q4	120	4942.6	32716	6.619	5.619	1.72619
1980Q1	121	4958.9	32716	6.597	5.597	1.72231
1980Q2	122	4857.8	32716	6.735	5.735	1.74654
1980Q3	123	4850.3	32716	6.745	5.745	1.74836
1980Q4	124	4936.6	32716	6.627	5.627	1.72762
1981Q1	125	5032.5	32716	6.501	5.501	1.70492
1981Q2	126	4997.3	32716	6.547	5.547	1.71321
1981Q3	127	5056.8	32716	6.470	5.470	1.69922
1981Q4	128	4997.1	32716	6.547	5.547	1.71326
1982Q1	129	4914.3	32716	6.657	5.657	1.73295
1982Q2	130	4935.5	32716	6.629	5.629	1.72788
1982Q3	131	4912.1	32716	6.660	5.660	1.73347
1982Q4	132	4915.6	32716	6.656	5.656	1.73264
1983Q1	133	4972.4	32716	6.580	5.580	1.71910
1983Q2	134	5089.8	32716	6.428	5.428	1.69153

1983Q3	135	5180.4	32716	6.315	5.315	1.67060
1983Q4	136	5286.8	32716	6.188	5.188	1.64639
1984Q1	137	5402.3	32716	6.056	5.056	1.62056
1984Q2	138	5493.8	32716	5.955	4.955	1.60041
1984Q3	139	5541.3	32716	5.904	4.904	1.59006
1984Q4	140	5583.1	32716	5.860	4.860	1.58100
1985Q1	141	5629.7	32716	5.811	4.811	1.57097
1985Q2	142	5673.8	32716	5.766	4.766	1.56154
1985Q3	143	5758.6	32716	5.681	4.681	1.54356
1985Q4	144	5806	32716	5.635	4.635	1.53361
1986Q1	145	5858.9	32716	5.584	4.584	1.52257
1986Q2	146	5883.3	32716	5.561	4.561	1.51750
1986Q3	147	5937.9	32716	5.510	4.510	1.50623
1986Q4	148	5969.5	32716	5.481	4.481	1.49974
1987Q1	149	6013.3	32716	5.441	4.441	1.49079
1987Q2	150	6077.2	32716	5.383	4.383	1.47782
1987Q3	151	6128.1	32716	5.339	4.339	1.46757
1987Q4	152	6234.4	32716	5.248	4.248	1.44637
1988Q1	153	6275.9	32716	5.213	4.213	1.43816
1988Q2	154	6349.8	32716	5.152	4.152	1.42366
1988Q3	155	6382.3	32716	5.126	4.126	1.41732
1988Q4	156	6465.2	32716	5.060	4.060	1.40126
1989Q1	157	6543.8	32716	5.000	4.000	1.38618
1989Q2	158	6579.4	32716	4.972	3.972	1.37939
1989Q3	159	6610.6	32716	4.949	3.949	1.37347
1989Q4	160	6633.5	32716	4.932	3.932	1.36913
1990Q1	161	6716.3	32716	4.871	3.871	1.35355
1990Q2	162	6731.7	32716	4.860	3.860	1.35066
1990Q3	163	6719.4	32716	4.869	3.869	1.35297
1990Q4	164	6664.2	32716	4.909	3.909	1.36334
1991Q1	165	6631.4	32716	4.933	3.933	1.36953
1991Q2	166	6668.5	32716	4.906	3.906	1.36253
1991Q3	167	6684.9	32716	4.894	3.894	1.35944
1991Q4	168	6720.9	32716	4.868	3.868	1.35269
1992Q1	169	6783.3	32716	4.823	3.823	1.34104
1992Q2	170	6846.8	32716	4.778	3.778	1.32927
1992Q3	171	6899.7	32716	4.742	3.742	1.31953
1992Q4	172	6990.6	32716	4.680	3.680	1.30291
1993Q1	173	6988.7	32716	4.681	3.681	1.30326
1993Q2	174	7031.2	32716	4.653	3.653	1.29554
1993Q3	175	7062	32716	4.633	3.633	1.28997
1993Q4	176	7168.7	32716	4.564	3.564	1.27081
1994Q1	177	7229.4	32716	4.525	3.525	1.26000
1994Q2	178	7330.2	32716	4.463	3.463	1.24219
1994Q3	179	7370.2	32716	4.439	3.439	1.23517

1994Q4	180	7461.1	32716	4.385	3.385	1.21932
1995Q1	181	7488.7	32716	4.369	3.369	1.21453
1995Q2	182	7503.3	32716	4.360	3.360	1.21200
1995Q3	183	7561.4	32716	4.327	3.327	1.20198
1995Q4	184	7621.9	32716	4.292	3.292	1.19161
1996Q1	185	7676.4	32716	4.262	3.262	1.18231
1996Q2	186	7802.9	32716	4.193	3.193	1.16090
1996Q3	187	7841.9	32716	4.172	3.172	1.15435
1996Q4	188	7931.3	32716	4.125	3.125	1.13941
1997Q1	189	8016.4	32716	4.081	3.081	1.12530
1997Q2	190	8131.9	32716	4.023	3.023	1.10631
1997Q3	191	8216.6	32716	3.982	2.982	1.09249
1997Q4	192	8272.9	32716	3.955	2.955	1.08336
1998Q1	193	8396.3	32716	3.896	2.896	1.06350
1998Q2	194	8442.9	32716	3.875	2.875	1.05604
1998Q3	195	8528.5	32716	3.836	2.836	1.04242
1998Q4	196	8667.9	32716	3.774	2.774	1.02043
1999Q1	197	8733.5	32716	3.746	2.746	1.01016
1999Q2	198	8771.2	32716	3.730	2.730	1.00428
1999Q3	199	8871.5	32716	3.688	2.688	0.98871
1999Q4	200	9049.9	32716	3.615	2.615	0.96129
2000Q1	201	9102.5	32716	3.594	2.594	0.95327
2000Q2	202	9229.4	32716	3.545	2.545	0.93404
2000Q3	203	9260.1	32716	3.533	2.533	0.92941
2000Q4	204	9303.9	32716	3.516	2.516	0.92282
	20910	930779.7	6674064.000	1843.827	1639.827	393.765303
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						1.04004

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parametr	c=	gama	0.0262732	0.0000589		

APE	AMAPE

32716







0.000	0.000

2.9702621 19.49703



čtvrtletí	pořadí	realGDP	vyrovnání	rezidua	abs.rezidua	rezidua^2
1950Q1	1	1610.5	1625.332	-14.832	14.832	220.00
1950Q2	2	1658.8	1642.824	15.976	15.976	255.22
1950Q3	3	1723	1660.459	62.541	62.541	3911.42
1950Q4	4	1753.9	1678.236	75.664	75.664	5725.11
1951Q1	5	1773.5	1696.156	77.344	77.344	5982.13
1951Q2	6	1803.7	1714.220	89.480	89.480	8006.65
1951Q3	7	1839.8	1732.429	107.371	107.371	11528.51
1951Q4	8	1843.3	1750.783	92.517	92.517	8559.31
1952Q1	9	1864.7	1769.284	95.416	95.416	9104.25
1952Q2	10	1866.2	1787.931	78.269	78.269	6126.07
1952Q3	11	1878	1806.725	71.275	71.275	5080.12
1952Q4	12	1940.2	1825.667	114.533	114.533	13117.74
1953Q1	13	1976	1844.758	131.242	131.242	17224.43
1953Q2	14	1992.2	1863.998	128.202	128.202	16435.71
1953Q3	15	1979.5	1883.388	96.112	96.112	9237.50
1953Q4	16	1947.8	1902.929	44.871	44.871	2013.45
1954Q1	17	1938.1	1922.620	15.480	15.480	239.63
1954Q2	18	1941	1942.464	-1.464	1.464	2.14
1954Q3	19	1962	1962.459	-0.459	0.459	0.21
1954Q4	20	2000.9	1982.608	18.292	18.292	334.58
1955Q1	21	2058.1	2002.911	55.189	55.189	3045.83
1955Q2	22	2091	2023.368	67.632	67.632	4574.10
1955Q3	23	2118.9	2043.980	74.920	74.920	5613.03
1955Q4	24	2130.1	2064.747	65.353	65.353	4270.98
1956Q1	25	2121	2085.671	35.329	35.329	1248.14
1956Q2	26	2137.7	2106.752	30.948	30.948	957.81
1956Q3	27	2135.3	2127.989	7.311	7.311	53.44
1956Q4	28	2170.4	2149.386	21.014	21.014	441.61
1957Q1	29	2182.7	2170.940	11.760	11.760	138.29
1957Q2	30	2177.7	2192.654	-14.954	14.954	223.63
1957Q3	31	2198.9	2214.528	-15.628	15.628	244.24
1957Q4	32	2176	2236.563	-60.563	60.563	3667.83
1958Q1	33	2117.4	2258.758	-141.358	141.358	19982.14
1958Q2	34	2129.7	2281.115	-151.415	151.415	22926.65
1958Q3	35	2177.5	2303.635	-126.135	126.135	15910.06
1958Q4	36	2226.5	2326.318	-99.818	99.818	9963.56
1959Q1	37	2273	2349.164	-76.164	76.164	5800.91
1959Q2	38	2332.4	2372.174	-39.774	39.774	1581.96
1959Q3	39	2331.4	2395.349	-63.949	63.949	4089.44
1959Q4	40	2339.1	2418.689	-79.589	79.589	6334.39
1960Q1	41	2391	2442.195	-51.195	51.195	2620.92
1960Q2	42	2379.2	2465.867	-86.667	86.667	7511.25
1960Q3	43	2383.6	2489.707	-106.107	106.107	11258.69
1960Q4	44	2352.9	2513.714	-160.814	160.814	25861.19

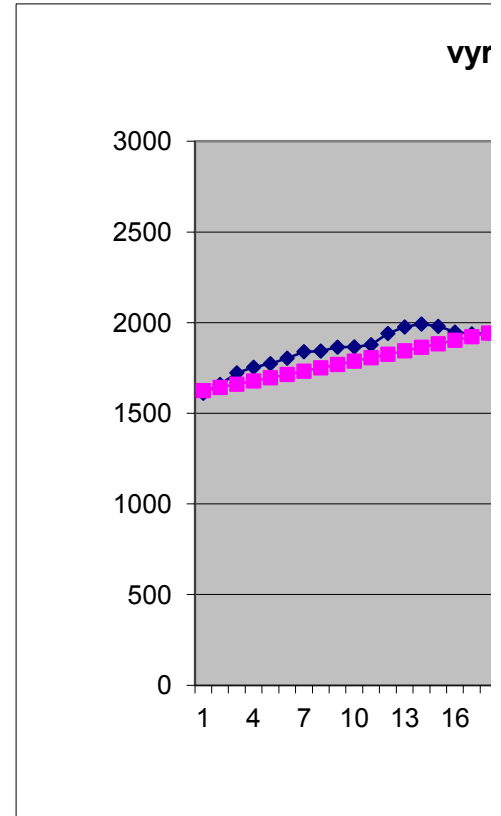
1961Q1	45	<b>2366.5</b>	2537.890	-171.390	171.390	29374.37
1961Q2	46	<b>2410.8</b>	2562.234	-151.434	151.434	22932.15
1961Q3	47	<b>2450.4</b>	2586.747	-136.347	136.347	18590.54
1961Q4	48	<b>2500.4</b>	2611.430	-111.030	111.030	12327.77
1962Q1	49	<b>2544</b>	2636.284	-92.284	92.284	8516.40
1962Q2	50	<b>2571.5</b>	2661.309	-89.809	89.809	8065.69
1962Q3	51	<b>2596.8</b>	2686.506	-89.706	89.706	8047.10
1962Q4	52	<b>2603.3</b>	2711.874	-108.574	108.574	11788.36
1963Q1	53	<b>2634.1</b>	2737.415	-103.315	103.315	10674.09
1963Q2	54	<b>2668.4</b>	2763.130	-94.730	94.730	8973.77
1963Q3	55	<b>2719.6</b>	2789.018	-69.418	69.418	4818.90
1963Q4	56	<b>2739.4</b>	2815.081	-75.681	75.681	5727.60
1964Q1	57	<b>2800.5</b>	2841.318	-40.818	40.818	1666.14
1964Q2	58	<b>2833.8</b>	2867.731	-33.931	33.931	1151.33
1964Q3	59	<b>2872</b>	2894.320	-22.320	22.320	498.19
1964Q4	60	<b>2879.5</b>	2921.085	-41.585	41.585	1729.34
1965Q1	61	<b>2950.1</b>	2948.028	2.072	2.072	4.29
1965Q2	62	<b>2989.9</b>	2975.147	14.753	14.753	217.64
1965Q3	63	<b>3050.7</b>	3002.445	48.255	48.255	2328.53
1965Q4	64	<b>3123.6</b>	3029.921	93.679	93.679	8775.66
1966Q1	65	<b>3201.1</b>	3057.577	143.523	143.523	20598.89
1966Q2	66	<b>3213.2</b>	3085.412	127.788	127.788	16329.81
1966Q3	67	<b>3233.6</b>	3113.427	120.173	120.173	14441.58
1966Q4	68	<b>3261.8</b>	3141.622	120.178	120.178	14442.64
1967Q1	69	<b>3291.8</b>	3169.999	121.801	121.801	14835.46
1967Q2	70	<b>3289.7</b>	3198.557	91.143	91.143	8306.98
1967Q3	71	<b>3313.5</b>	3227.298	86.202	86.202	7430.85
1967Q4	72	<b>3338.3</b>	3256.220	82.080	82.080	6737.05
1968Q1	73	<b>3406.2</b>	3285.326	120.874	120.874	14610.45
1968Q2	74	<b>3464.8</b>	3314.616	150.184	150.184	22555.34
1968Q3	75	<b>3489.2</b>	3344.089	145.111	145.111	21057.21
1968Q4	76	<b>3504.1</b>	3373.747	130.353	130.353	16991.97
1969Q1	77	<b>3558.3</b>	3403.589	154.711	154.711	23935.35
1969Q2	78	<b>3567.6</b>	3433.618	133.982	133.982	17951.29
1969Q3	79	<b>3588.3</b>	3463.832	124.468	124.468	15492.40
1969Q4	80	<b>3571.4</b>	3494.232	77.168	77.168	5954.94
1970Q1	81	<b>3566.5</b>	3524.819	41.681	41.681	1737.32
1970Q2	82	<b>3573.9</b>	3555.593	18.307	18.307	335.15
1970Q3	83	<b>3605.2</b>	3586.555	18.645	18.645	347.64
1970Q4	84	<b>3566.5</b>	3617.705	-51.205	51.205	2621.94
1971Q1	85	<b>3666.1</b>	3649.043	17.057	17.057	290.93
1971Q2	86	<b>3686.2</b>	3680.571	5.629	5.629	31.69
1971Q3	87	<b>3714.5</b>	3712.288	2.212	2.212	4.89
1971Q4	88	<b>3723.8</b>	3744.194	-20.394	20.394	415.93
1972Q1	89	<b>3796.9</b>	3776.291	20.609	20.609	424.72

1972Q2	90	3883.8	3808.579	75.221	75.221	5658.22
1972Q3	91	3922.3	3841.057	81.243	81.243	6600.34
1972Q4	92	3990.5	3873.728	116.772	116.772	13635.79
1973Q1	93	4092.3	3906.590	185.710	185.710	34488.33
1973Q2	94	4133.3	3939.644	193.656	193.656	37502.66
1973Q3	95	4117	3972.891	144.109	144.109	20767.42
1973Q4	96	4151.1	4006.331	144.769	144.769	20958.06
1974Q1	97	4119.3	4039.965	79.335	79.335	6294.12
1974Q2	98	4130.4	4073.792	56.608	56.608	3204.48
1974Q3	99	4084.5	4107.813	-23.313	23.313	543.52
1974Q4	100	4062	4142.030	-80.030	80.030	6404.75
1975Q1	101	4010	4176.441	-166.441	166.441	27702.55
1975Q2	102	4045.2	4211.047	-165.847	165.847	27505.33
1975Q3	103	4115.4	4245.849	-130.449	130.449	17017.07
1975Q4	104	4167.2	4280.848	-113.648	113.648	12915.81
1976Q1	105	4266.1	4316.042	-49.942	49.942	2494.24
1976Q2	106	4301.5	4351.434	-49.934	49.934	2493.38
1976Q3	107	4321.9	4387.022	-65.122	65.122	4240.91
1976Q4	108	4357.4	4422.808	-65.408	65.408	4278.23
1977Q1	109	4410.5	4458.792	-48.292	48.292	2332.11
1977Q2	110	4489.8	4494.974	-5.174	5.174	26.77
1977Q3	111	4570.6	4531.354	39.246	39.246	1540.25
1977Q4	112	4576.1	4567.933	8.167	8.167	66.70
1978Q1	113	4588.9	4604.711	-15.811	15.811	249.99
1978Q2	114	4765.7	4641.688	124.012	124.012	15378.88
1978Q3	115	4811.7	4678.865	132.835	132.835	17645.01
1978Q4	116	4876	4716.243	159.757	159.757	25522.44
1979Q1	117	4888.3	4753.820	134.480	134.480	18084.89
1979Q2	118	4891.4	4791.598	99.802	99.802	9960.47
1979Q3	119	4926.2	4829.577	96.623	96.623	9336.07
1979Q4	120	4942.6	4867.757	74.843	74.843	5601.53
1980Q1	121	4958.9	4906.138	52.762	52.762	2783.83
1980Q2	122	4857.8	4944.721	-86.921	86.921	7555.27
1980Q3	123	4850.3	4983.506	-133.206	133.206	17743.87
1980Q4	124	4936.6	5022.493	-85.893	85.893	7377.67
1981Q1	125	5032.5	5061.683	-29.183	29.183	851.66
1981Q2	126	4997.3	5101.076	-103.776	103.776	10769.39
1981Q3	127	5056.8	5140.671	-83.871	83.871	7034.38
1981Q4	128	4997.1	5180.470	-183.370	183.370	33624.54
1982Q1	129	4914.3	5220.472	-306.172	306.172	93741.42
1982Q2	130	4935.5	5260.678	-325.178	325.178	105740.85
1982Q3	131	4912.1	5301.088	-388.988	388.988	151311.74
1982Q4	132	4915.6	5341.702	-426.102	426.102	181563.08
1983Q1	133	4972.4	5382.521	-410.121	410.121	168198.97
1983Q2	134	5089.8	5423.544	-333.744	333.744	111384.92

1983Q3	135	5180.4	5464.772	-284.372	284.372	80867.27
1983Q4	136	5286.8	5506.205	-219.405	219.405	48138.41
1984Q1	137	5402.3	5547.843	-145.543	145.543	21182.73
1984Q2	138	5493.8	5589.686	-95.886	95.886	9194.22
1984Q3	139	5541.3	5631.736	-90.436	90.436	8178.62
1984Q4	140	5583.1	5673.991	-90.891	90.891	8261.13
1985Q1	141	5629.7	5716.452	-86.752	86.752	7525.88
1985Q2	142	5673.8	5759.119	-85.319	85.319	7279.33
1985Q3	143	5758.6	5801.993	-43.393	43.393	1882.91
1985Q4	144	5806	5845.073	-39.073	39.073	1526.67
1986Q1	145	5858.9	5888.359	-29.459	29.459	867.85
1986Q2	146	5883.3	5931.853	-48.553	48.553	2357.37
1986Q3	147	5937.9	5975.553	-37.653	37.653	1417.77
1986Q4	148	5969.5	6019.461	-49.961	49.961	2496.09
1987Q1	149	6013.3	6063.576	-50.276	50.276	2527.65
1987Q2	150	6077.2	6107.898	-30.698	30.698	942.37
1987Q3	151	6128.1	6152.428	-24.328	24.328	591.84
1987Q4	152	6234.4	6197.165	37.235	37.235	1386.43
1988Q1	153	6275.9	6242.110	33.790	33.790	1141.74
1988Q2	154	6349.8	6287.263	62.537	62.537	3910.82
1988Q3	155	6382.3	6332.625	49.675	49.675	2467.65
1988Q4	156	6465.2	6378.194	87.006	87.006	7570.09
1989Q1	157	6543.8	6423.971	119.829	119.829	14358.96
1989Q2	158	6579.4	6469.957	109.443	109.443	11977.81
1989Q3	159	6610.6	6516.151	94.449	94.449	8920.63
1989Q4	160	6633.5	6562.553	70.947	70.947	5033.41
1990Q1	161	6716.3	6609.165	107.135	107.135	11478.00
1990Q2	162	6731.7	6655.984	75.716	75.716	5732.87
1990Q3	163	6719.4	6703.013	16.387	16.387	268.54
1990Q4	164	6664.2	6750.250	-86.050	86.050	7404.59
1991Q1	165	6631.4	6797.696	-166.296	166.296	27654.35
1991Q2	166	6668.5	6845.351	-176.851	176.851	31276.23
1991Q3	167	6684.9	6893.215	-208.315	208.315	43395.02
1991Q4	168	6720.9	6941.288	-220.388	220.388	48570.66
1992Q1	169	6783.3	6989.569	-206.269	206.269	42547.05
1992Q2	170	6846.8	7038.060	-191.260	191.260	36580.47
1992Q3	171	6899.7	7086.760	-187.060	187.060	34991.51
1992Q4	172	6990.6	7135.669	-145.069	145.069	21045.08
1993Q1	173	6988.7	7184.787	-196.087	196.087	38450.26
1993Q2	174	7031.2	7234.115	-202.915	202.915	41174.36
1993Q3	175	7062	7283.651	-221.651	221.651	49129.21
1993Q4	176	7168.7	7333.397	-164.697	164.697	27124.99
1994Q1	177	7229.4	7383.351	-153.951	153.951	23701.03
1994Q2	178	7330.2	7433.515	-103.315	103.315	10674.04
1994Q3	179	7370.2	7483.888	-113.688	113.688	12925.01

1994Q4	180	7461.1	7534.470	-73.370	73.370	5383.20
1995Q1	181	7488.7	7585.261	-96.561	96.561	9324.12
1995Q2	182	7503.3	7636.262	-132.962	132.962	17678.81
1995Q3	183	7561.4	7687.471	-126.071	126.071	15893.88
1995Q4	184	7621.9	7738.889	-116.989	116.989	13686.46
1996Q1	185	7676.4	7790.516	-114.116	114.116	13022.53
1996Q2	186	7802.9	7842.352	-39.452	39.452	1556.49
1996Q3	187	7841.9	7894.397	-52.497	52.497	2755.96
1996Q4	188	7931.3	7946.651	-15.351	15.351	235.65
1997Q1	189	8016.4	7999.113	17.287	17.287	298.83
1997Q2	190	8131.9	8051.784	80.116	80.116	6418.51
1997Q3	191	8216.6	8104.664	111.936	111.936	12529.66
1997Q4	192	8272.9	8157.752	115.148	115.148	13259.02
1998Q1	193	8396.3	8211.049	185.251	185.251	34318.03
1998Q2	194	8442.9	8264.554	178.346	178.346	31807.43
1998Q3	195	8528.5	8318.267	210.233	210.233	44198.02
1998Q4	196	8667.9	8372.188	295.712	295.712	87445.59
1999Q1	197	8733.5	8426.317	307.183	307.183	94361.22
1999Q2	198	8771.2	8480.655	290.545	290.545	84416.69
1999Q3	199	8871.5	8535.200	336.300	336.300	113098.01
1999Q4	200	9049.9	8589.952	459.948	459.948	211551.94
2000Q1	201	9102.5	8644.913	457.587	457.587	209386.30
2000Q2	202	9229.4	8700.080	529.320	529.320	280179.41
2000Q3	203	9260.1	8755.455	504.645	504.645	254666.30
2000Q4	204	9303.9	8811.037	492.863	492.863	242913.48
sumace		930779.7	931080.5256	-300.8256 (SE)	22967.224 SAE	4532160.951 SSE
				-1.4746 ME	112.584 MAE	22216.475 MSE
						149.052 RMSE
parametr	beta =	0.837818	0.997401 = b1			
parametr	alfa =	-0.099063	-4.129661 = b0			
parametr	gama =	-257.039275	11.512396 = b2			

APE	MAPE	$y_t^2$	$yv_t^2$
0.009	0.009	2593710.25	2641705.14
0.010	0.010	2751617.44	2698872.14
0.036	0.037	2968729.00	2757122.84
0.043	0.044	3076165.21	2816474.47
0.044	0.045	3145302.25	2876944.50
0.050	0.051	3253333.69	2938550.58
0.058	0.060	3384864.04	3001310.62
0.050	0.051	3397754.89	3065242.69
0.051	0.053	3477106.09	3130365.13
0.042	0.043	3482702.44	3196696.46
0.038	0.039	3526884.00	3264255.44
0.059	0.061	3764376.04	3333061.04
0.066	0.069	3904576.00	3403132.47
0.064	0.066	3968860.84	3474489.15
0.049	0.050	3918420.25	3547150.73
0.023	0.023	3793924.84	3621137.08
0.008	0.008	3756231.61	3696468.32
0.001	0.001	3767481.00	3773164.78
0.000	0.000	3849444.00	3851247.02
0.009	0.009	4003600.81	3930735.86
0.027	0.027	4235775.61	4011652.33
0.032	0.033	4372281.00	4094017.70
0.035	0.036	4489737.21	4177853.48
0.031	0.031	4537326.01	4263181.42
0.017	0.017	4498641.00	4350023.51
0.014	0.015	4569761.29	4438401.98
0.003	0.003	4559506.09	4528339.30
0.010	0.010	4710636.16	4619858.19
0.005	0.005	4764179.29	4712981.63
0.007	0.007	4742377.29	4807732.80
0.007	0.007	4835161.21	4904135.18
0.028	0.027	4734976.00	5002212.48
0.067	0.065	4483382.76	5101988.64
0.071	0.069	4535622.09	5203487.89
0.058	0.056	4741506.25	5306734.68
0.045	0.044	4957302.25	5411753.74
0.034	0.033	5166529.00	5518570.04
0.017	0.017	5440089.76	5627208.80
0.027	0.027	5435425.96	5737695.53
0.034	0.033	5471388.81	5850055.96
0.021	0.021	5716881.00	5964316.11
0.036	0.036	5660592.64	6080502.25
0.045	0.044	5681548.96	6198640.91
0.068	0.066	5536138.41	6318758.88



0.072	0.070	5600322.25	6440883.24
0.063	0.061	5811956.64	6565041.30
0.056	0.054	6004460.16	6691260.67
0.044	0.043	6252000.16	6819569.21
0.036	0.036	6471936.00	6949995.05
0.035	0.034	6612612.25	7082566.59
0.035	0.034	6743370.24	7217312.51
0.042	0.041	6777170.89	7354261.76
0.039	0.038	6938482.81	7493443.55
0.036	0.035	7120358.56	7634887.38
0.026	0.025	7396224.16	7778623.01
0.028	0.027	7504312.36	7924680.50
0.015	0.014	7842800.25	8073090.16
0.012	0.012	8030422.44	8223882.60
0.008	0.008	8248384.00	8377088.69
0.014	0.014	8291520.25	8532739.59
0.001	0.001	8703090.01	8690866.73
0.005	0.005	8939502.01	8851501.84
0.016	0.016	9306770.49	9014676.92
0.030	0.030	9756876.96	9180424.25
0.045	0.046	10247041.21	9348776.39
0.040	0.041	10324654.24	9519766.20
0.037	0.038	10456168.96	9693426.81
0.037	0.038	10639339.24	9869791.64
0.037	0.038	10835947.24	10048894.39
0.028	0.028	10822126.09	10230769.06
0.026	0.026	10979282.25	10415449.94
0.025	0.025	11144246.89	10602971.57
0.035	0.036	11602198.44	10793368.83
0.043	0.044	12004839.04	10986676.86
0.042	0.042	12174516.64	11182931.08
0.037	0.038	12278716.81	11382167.23
0.043	0.044	12661498.89	11584421.31
0.038	0.038	12727769.76	11789729.62
0.035	0.035	12875896.89	11998128.78
0.022	0.022	12754897.96	12209655.65
0.012	0.012	12719922.25	12424347.42
0.005	0.005	12772761.21	12642241.55
0.005	0.005	12997467.04	12863375.82
0.014	0.014	12719922.25	13087788.27
0.005	0.005	13440289.21	13315517.25
0.002	0.002	13588070.44	13546601.40
0.001	0.001	13797510.25	13781079.66
0.005	0.005	13866686.44	14018991.25
0.005	0.005	14416449.61	14260375.69

0.019	0.020	15083902.44	14505272.80
0.021	0.021	15384437.29	14753722.69
0.029	0.030	15924090.25	15005765.75
0.045	0.046	16746919.29	15261442.69
0.047	0.048	17084168.89	15520794.48
0.035	0.036	16949689.00	15783862.42
0.035	0.035	17231631.21	16050688.08
0.019	0.019	16968632.49	16321313.34
0.014	0.014	17060204.16	16595780.34
0.006	0.006	16683140.25	16874131.56
0.020	0.020	16499844.00	17156409.74
0.042	0.041	16080100.00	17442657.93
0.041	0.040	16363643.04	17732919.46
0.032	0.031	16936517.16	18027237.95
0.027	0.027	17365555.84	18325657.34
0.012	0.012	18199609.21	18628221.83
0.012	0.012	18502902.25	18934975.93
0.015	0.015	18678819.61	19245964.43
0.015	0.015	18986934.76	19561232.42
0.011	0.011	19452510.25	19880825.27
0.001	0.001	20158304.04	20204788.66
0.009	0.009	20890384.36	20533168.53
0.002	0.002	20940691.21	20866011.12
0.003	0.003	21058003.21	21203362.99
0.026	0.026	22711896.49	21545270.93
0.028	0.028	23152456.89	21891782.07
0.033	0.033	23775376.00	22242943.79
0.028	0.028	23895476.89	22598803.77
0.020	0.021	23925793.96	22959409.98
0.020	0.020	24267446.44	23324810.67
0.015	0.015	24429294.76	23695054.37
0.011	0.011	24590689.21	24070189.89
0.018	0.018	23598220.84	24450266.33
0.027	0.027	23525410.09	24835333.06
0.017	0.017	24370019.56	25225439.76
0.006	0.006	25326056.25	25620636.34
0.021	0.021	24973007.29	26020973.03
0.017	0.016	25571226.24	26426500.32
0.037	0.036	24971008.41	26837268.98
0.062	0.060	24150344.49	27253330.05
0.066	0.064	24359160.25	27674734.85
0.079	0.076	24128726.41	28101534.97
0.087	0.083	24163123.36	28533782.27
0.082	0.079	24724761.76	28971528.89
0.066	0.063	25906064.04	29414827.22

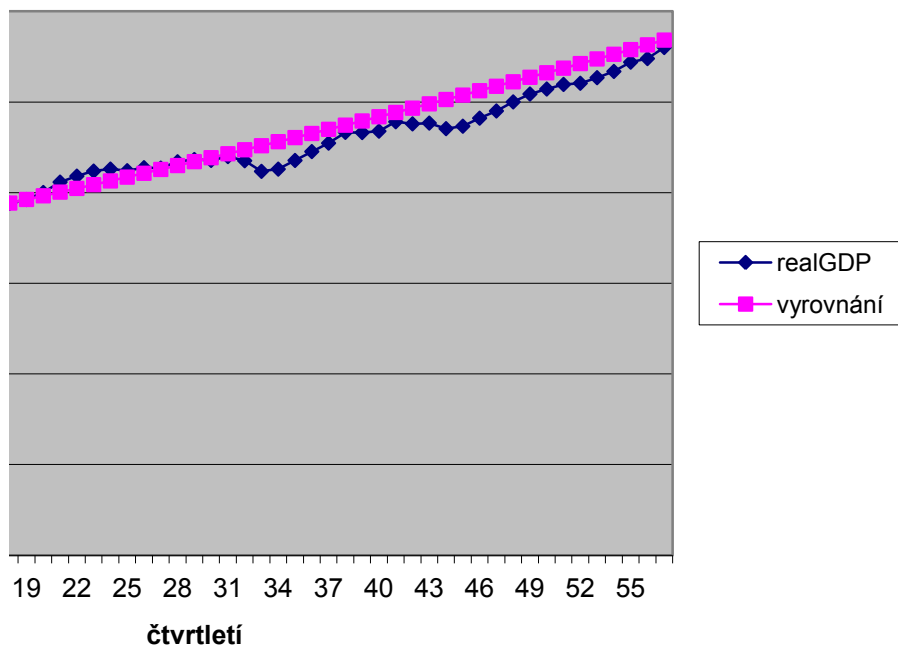


0.055	0.053	26836544.16	29863729.94
0.042	0.041	27950254.24	30318289.98
0.027	0.027	29184845.29	30778560.55
0.017	0.017	30181838.44	31244595.12
0.016	0.016	30706005.69	31716447.40
0.016	0.016	31171005.61	32194171.40
0.015	0.015	31693522.09	32677821.37
0.015	0.015	32192006.44	33167451.81
0.008	0.008	33161473.96	33663117.50
0.007	0.007	33709636.00	34164873.45
0.005	0.005	34326709.21	34672774.94
0.008	0.008	34613218.89	35186877.50
0.006	0.006	35258656.41	35707236.90
0.008	0.008	35634930.25	36233909.19
0.008	0.008	36159776.89	36766950.62
0.005	0.005	36932359.84	37306417.73
0.004	0.004	37553609.61	37852367.28
0.006	0.006	38867743.36	38404856.28
0.005	0.005	39386920.81	38963941.97
0.010	0.010	40319960.04	39529681.84
0.008	0.008	40733753.29	40102133.61
0.013	0.014	41798811.04	40681355.25
0.018	0.018	42821318.44	41267404.94
0.017	0.017	43288504.36	41860341.10
0.014	0.014	43700032.36	42460222.39
0.011	0.011	44003322.25	43067107.68
0.016	0.016	45108685.69	43681056.07
0.011	0.011	45315784.89	44302126.89
0.002	0.002	45150336.36	44930379.69
0.013	0.013	44411561.64	45565874.22
0.025	0.025	43975465.96	46208670.47
0.027	0.026	44468892.25	46858828.64
0.031	0.031	44687888.01	47516409.12
0.033	0.032	45170496.81	48181472.54
0.030	0.030	46013158.89	48854079.72
0.028	0.028	46878670.24	49534291.68
0.027	0.027	47605860.09	50222169.66
0.021	0.021	48868488.36	50917775.09
0.028	0.028	48841927.69	51621169.60
0.029	0.028	49437773.44	52332415.01
0.031	0.031	49871844.00	53051573.34
0.023	0.023	51390259.69	53778706.80
0.021	0.021	52264224.36	54513877.79
0.014	0.014	53731832.04	55257148.89
0.015	0.015	54319848.04	56008582.86

0.010	0.010	55668013.21	56768242.65
0.013	0.013	56080627.69	57536191.38
0.018	0.018	56299510.89	58312492.35
0.017	0.017	57174769.96	59097209.04
0.015	0.015	58093359.61	59890405.08
0.015	0.015	58927116.96	60692144.28
0.005	0.005	60885248.41	61502490.61
0.007	0.007	61495395.61	62321508.21
0.002	0.002	62905519.69	63149261.36
0.002	0.002	64262668.96	63985814.53
0.010	0.010	66127797.61	64831232.30
0.014	0.014	67512515.56	65685579.43
0.014	0.014	68440874.41	66548920.82
0.022	0.022	70497853.69	67421321.52
0.021	0.021	71282560.41	68302846.70
0.025	0.025	72735312.25	69193561.70
0.034	0.035	75132490.41	70093531.96
0.035	0.036	76274022.25	71002823.09
0.033	0.034	76933949.44	71921500.79
0.038	0.039	78703512.25	72849630.93
0.051	0.052	81900690.01	73787279.47
0.050	0.052	82855506.25	74734512.50
0.057	0.059	85181824.36	75691396.23
0.054	0.056	85749452.01	76657996.98
0.053	0.054	86562555.21	77634381.19
<b>5.366</b>	<b>5.360</b>	<b>5153991741</b>	<b>5142654419</b>
<b>2.631</b>	<b>2.628</b>		
<b>MAPE</b>	<b>AMAPE</b>		

THEILovoU	0.01484
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## Vyrovňání Gompertzovým trendem



trendová funkce		ME	MAE	SSE	MSE	RMSE	MAPE	AMAPE	THEIL' U
1	<i>lineární trend</i>	3.7049E-12	291.3660	28797095.100	141162.231	375.716	7.983	8.495	0.03743
2	<i>kvadratický trend</i>	-1.0581E-08	113.4160	4674181.522	22912.655	151.369	2.5972	2.5970	0.01507
3	<i>kubický trend</i>	-1.1397E-03	107.2110	3394514.926	16639.779	128.995	2.745	2.736	0.01283
4	<i>bikvadratický trend</i>	2.4883E-02	85.8820	2368807.230	11611.800	107.758	2.158	2.152	0.01072
5	<i>mocninný trend</i>	1.6339E+02	726.0390	181724826.000	890807.971	943.826	16.678	16.866	0.09774
6	<i>logaritmický trend</i>	-2.5145E-11	1066.0800	355573663.800	1743008.156	1320.230	28.145	27.641	0.12352
7	<i>exponenciální trend</i>	2.1839E+02	479.1520	76471649.170	374861.025	612.259	11.192	10.939	0.06352
8	<i>modifik.expon.trend</i>	7.0100E-03	108.4490	3794455.560	18600.272	136.383	2.675	2.678	0.01357
9	<i>logistický trend</i>	4.5700E-01	121.9810	6224945.163	30514.437	174.684	2.705	2.690	0.01740
10	<i>Gompertzův trend</i>	-1.4746E+00	112.5840	4532160.951	22216.475	149.052	2.631	2.628	0.01484
		mean error	mean absolute error	sum of sq.errors	mean sq.error	root MSE	mean abs.%-error	adjusted MAPE	TheilovoU

čtvrtletí	pořadí	realGDP	čtvrtletí	pořadí	realGDP	čtvrtletí	pořadí
1950Q1	1	1610.5	1967Q1	69	3291.8	1984Q1	137
1950Q2	2	1658.8	1967Q2	70	3289.7	1984Q2	138
1950Q3	3	1723	1967Q3	71	3313.5	1984Q3	139
1950Q4	4	1753.9	1967Q4	72	3338.3	1984Q4	140
1951Q1	5	1773.5	1968Q1	73	3406.2	1985Q1	141
1951Q2	6	1803.7	1968Q2	74	3464.8	1985Q2	142
1951Q3	7	1839.8	1968Q3	75	3489.2	1985Q3	143
1951Q4	8	1843.3	1968Q4	76	3504.1	1985Q4	144
1952Q1	9	1864.7	1969Q1	77	3558.3	1986Q1	145
1952Q2	10	1866.2	1969Q2	78	3567.6	1986Q2	146
1952Q3	11	1878	1969Q3	79	3588.3	1986Q3	147
1952Q4	12	1940.2	1969Q4	80	3571.4	1986Q4	148
1953Q1	13	1976	1970Q1	81	3566.5	1987Q1	149
1953Q2	14	1992.2	1970Q2	82	3573.9	1987Q2	150
1953Q3	15	1979.5	1970Q3	83	3605.2	1987Q3	151
1953Q4	16	1947.8	1970Q4	84	3566.5	1987Q4	152
1954Q1	17	1938.1	1971Q1	85	3666.1	1988Q1	153
1954Q2	18	1941	1971Q2	86	3686.2	1988Q2	154
1954Q3	19	1962	1971Q3	87	3714.5	1988Q3	155
1954Q4	20	2000.9	1971Q4	88	3723.8	1988Q4	156
1955Q1	21	2058.1	1972Q1	89	3796.9	1989Q1	157
1955Q2	22	2091	1972Q2	90	3883.8	1989Q2	158
1955Q3	23	2118.9	1972Q3	91	3922.3	1989Q3	159
1955Q4	24	2130.1	1972Q4	92	3990.5	1989Q4	160
1956Q1	25	2121	1973Q1	93	4092.3	1990Q1	161
1956Q2	26	2137.7	1973Q2	94	4133.3	1990Q2	162
1956Q3	27	2135.3	1973Q3	95	4117	1990Q3	163
1956Q4	28	2170.4	1973Q4	96	4151.1	1990Q4	164
1957Q1	29	2182.7	1974Q1	97	4119.3	1991Q1	165
1957Q2	30	2177.7	1974Q2	98	4130.4	1991Q2	166
1957Q3	31	2198.9	1974Q3	99	4084.5	1991Q3	167
1957Q4	32	2176	1974Q4	100	4062	1991Q4	168
1958Q1	33	2117.4	1975Q1	101	4010	1992Q1	169
1958Q2	34	2129.7	1975Q2	102	4045.2	1992Q2	170
1958Q3	35	2177.5	1975Q3	103	4115.4	1992Q3	171
1958Q4	36	2226.5	1975Q4	104	4167.2	1992Q4	172
1959Q1	37	2273	1976Q1	105	4266.1	1993Q1	173
1959Q2	38	2332.4	1976Q2	106	4301.5	1993Q2	174
1959Q3	39	2331.4	1976Q3	107	4321.9	1993Q3	175
1959Q4	40	2339.1	1976Q4	108	4357.4	1993Q4	176
1960Q1	41	2391	1977Q1	109	4410.5	1994Q1	177
1960Q2	42	2379.2	1977Q2	110	4489.8	1994Q2	178
1960Q3	43	2383.6	1977Q3	111	4570.6	1994Q3	179

1960Q4	44	<b>2352.9</b>	1977Q4	112	<b>4576.1</b>	1994Q4	180
1961Q1	45	<b>2366.5</b>	1978Q1	113	<b>4588.9</b>	1995Q1	181
1961Q2	46	<b>2410.8</b>	1978Q2	114	<b>4765.7</b>	1995Q2	182
1961Q3	47	<b>2450.4</b>	1978Q3	115	<b>4811.7</b>	1995Q3	183
1961Q4	48	<b>2500.4</b>	1978Q4	116	<b>4876</b>	1995Q4	184
1962Q1	49	<b>2544</b>	1979Q1	117	<b>4888.3</b>	1996Q1	185
1962Q2	50	<b>2571.5</b>	1979Q2	118	<b>4891.4</b>	1996Q2	186
1962Q3	51	<b>2596.8</b>	1979Q3	119	<b>4926.2</b>	1996Q3	187
1962Q4	52	<b>2603.3</b>	1979Q4	120	<b>4942.6</b>	1996Q4	188
1963Q1	53	<b>2634.1</b>	1980Q1	121	<b>4958.9</b>	1997Q1	189
1963Q2	54	<b>2668.4</b>	1980Q2	122	<b>4857.8</b>	1997Q2	190
1963Q3	55	<b>2719.6</b>	1980Q3	123	<b>4850.3</b>	1997Q3	191
1963Q4	56	<b>2739.4</b>	1980Q4	124	<b>4936.6</b>	1997Q4	192
1964Q1	57	<b>2800.5</b>	1981Q1	125	<b>5032.5</b>	1998Q1	193
1964Q2	58	<b>2833.8</b>	1981Q2	126	<b>4997.3</b>	1998Q2	194
1964Q3	59	<b>2872</b>	1981Q3	127	<b>5056.8</b>	1998Q3	195
1964Q4	60	<b>2879.5</b>	1981Q4	128	<b>4997.1</b>	1998Q4	196
1965Q1	61	<b>2950.1</b>	1982Q1	129	<b>4914.3</b>	1999Q1	197
1965Q2	62	<b>2989.9</b>	1982Q2	130	<b>4935.5</b>	1999Q2	198
1965Q3	63	<b>3050.7</b>	1982Q3	131	<b>4912.1</b>	1999Q3	199
1965Q4	64	<b>3123.6</b>	1982Q4	132	<b>4915.6</b>	1999Q4	200
1966Q1	65	<b>3201.1</b>	1983Q1	133	<b>4972.4</b>	2000Q1	201
1966Q2	66	<b>3213.2</b>	1983Q2	134	<b>5089.8</b>	2000Q2	202
1966Q3	67	<b>3233.6</b>	1983Q3	135	<b>5180.4</b>	2000Q3	203
1966Q4	68	<b>3261.8</b>	1983Q4	136	<b>5286.8</b>	2000Q4	204









<i>realGDP</i>
5402.3
5493.8
5541.3
5583.1
5629.7
5673.8
5758.6
5806
5858.9
5883.3
5937.9
5969.5
6013.3
6077.2
6128.1
6234.4
6275.9
6349.8
6382.3
6465.2
6543.8
6579.4
6610.6
6633.5
6716.3
6731.7
6719.4
6664.2
6631.4
6668.5
6684.9
6720.9
6783.3
6846.8
6899.7
6990.6
6988.7
7031.2
7062
7168.7
7229.4
7330.2
7370.2

<i>realGDP</i>	pořadí
1610.5	1
1658.8	2
1723	3
1753.9	4
1773.5	5
1803.7	6
1839.8	7
1843.3	8
1864.7	9
1866.2	10
1878	11
1940.2	12
1976	13
1992.2	14
1979.5	15
1947.8	16
1938.1	17
1941	18
1962	19
2000.9	20
2058.1	21
2091	22
2118.9	23
2130.1	24
2121	25
2137.7	26
2135.3	27
2170.4	28
2182.7	29
2177.7	30
2198.9	31
2176	32
2117.4	33
2129.7	34
2177.5	35
2226.5	36
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