Tracking the proportion of total factor count contributed by non-primes in a given range: a relative of the prime counting function?

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I got curious about the relative contributions of primes and composites to the factors of integers, and investigated this relationship with some simple arithmetic and graphing. I tallied the number of factors contributed by each integer *n* in the range [1, *x*] to the factorization of itself and all the other integers in the range, then summed up the tallies for a given value of *x* and divided the result by the total number of factors contributed by the non-prime integers only in the same range. The result was a function *G*(*x*), which I nicknamed the "factor credit" function because it expresses the relative credit due to the composite numbers in contributing factors to the integers in the given range (Table 1).

Plotting *G*(*x*) for 1 ≤ *x* ≤ 3000 revealed a sharp if chaotic rise to a sudden peak at (7, 1.77777...) followed by a gradual stabilizing and decay (Figure 1). The shape of the curve seemed consistent with either a rational function (i.e. ratio of polynomials) or perhaps some logarithmic function related to ln(*x*) / *x*. I plotted translations of a rational function on the same graph and they appeared to provide reasonably good upper and lower bounds for *G*(*x*) in the chosen interval, but I was unable to extend the investigations to a larger interval. The horizontal asymptotes of these translated rational functions were located at y ≈ 1.39939 and y ≈ 1.16939, and I wondered if *G*(*x*) might converge on a value between these, but I was unsure.

It seems like this must be related to the prime counting function...maybe a variation of the same? I get the impression that what it's counting is connected to that, but the exact nature of the connection isn't clear to me. I'm curious to learn more, such as the formal name for the function, whether it does converge (and to what value if so), and what kind of regression provides the best fit for the curve.

	n →	1	2	3	4	5	6	7	8	9	10	$S(x)$	$S_{comp}(x)$	$G(x)$
x	**1**	1										1	1	1
	2	2	1									3	2	1.5
	3	3	1	1								5	3	1.66666...
	4	4	2	1	1							8	5	1.6
	5	5	2	1	1	1						10	6	1.66666...
	6	6	3	2	1	1	1					14	8	1.75
	7	7	3	2	1	1	1	1				16	9	1.77777...
	8	8	4	2	2	1	1	1	1			20	12	1.66666...
	9	9	4	3	2	1	1	1	1	1		23	14	1.64285...
	10	10	5	3	2	2	1	1	1	1	1	27	16	1.6875

TABLE 1. Contribution of each integer *n* in the range [1, *x*] to the total number of factors of all integers in the range. Values for 1 ≤ *x* ≤ 10 are shown. The rightmost columns give the total factor count $S(x)$ for all integers in the range [1, *x*], the smaller factor count $S_{comp}(x)$ contributed by non-primes only in the same range, and the ratio $G(x) = S(x) / S_{comp}(x)$.

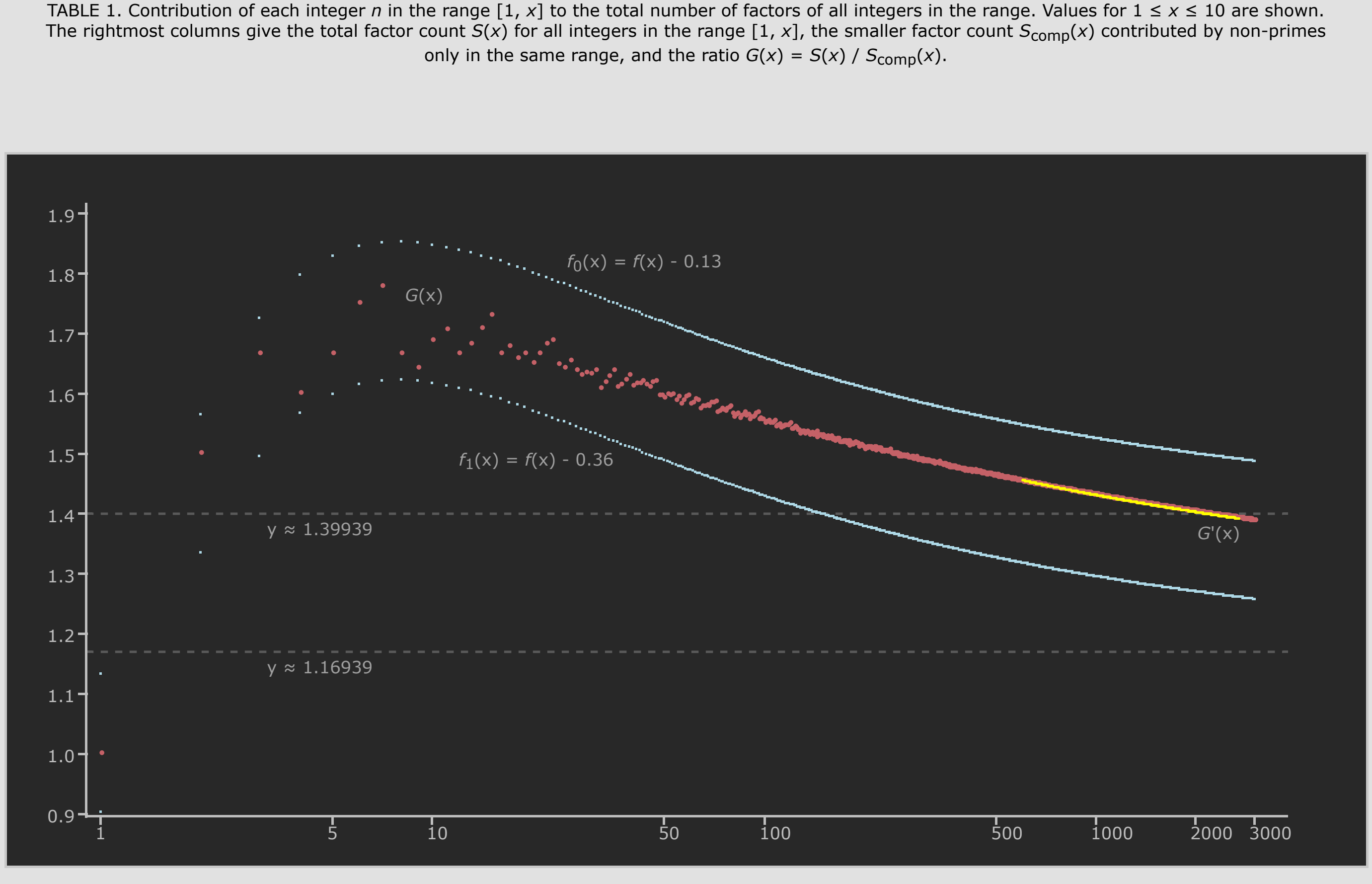

FIGURE 1. Scatterplot of "factor credit" function *G*(*x*) for 1 ≤ *x* ≤ 3000, bounded above and below by vertical translations f_0 and f_1 of a rational function *f*(*x*) = ((1.4988 * (x ^ 1.32) + 1.122 * x + 0) / (0.98 * (x ^ 1.32) + -0.008 * x + 1.1)). The horizontal asymptotes of the two translations are shown by the dashed lines. The data in yellow on the domain 600 ≤ x ≤ 2700 represent a smoothed curve *G*'(*x*) (centered moving average), in which each value of *G*(*x*) has been summed with the 300 adjacent values immediately before and after it and the average of these taken. The maximum of $|f_0(x) - G'(x)|$ occurs at *x* = 2700 and the minimum at *x* = 600, while the maximum of $|f_1(x) - G'(x)|$ occurs at *x* = 600 and the minimum at *x* = 2700, suggesting *G*(*x*) is slowly moving away from $f_0(x)$ and toward $f_1(x)$. All x-values have been natural log transformed for ease of viewing (see scale on x-axis).

Acknowledgments

Thanks to D.J. Pfeiffer, who provided a list of primes used in the calculations.

Appendix

Values of *G*(*x*) for 1 ≤ *x* ≤ 3000

```
x       G(x)
==========================
1       1
2       1.5
3       1.6666666666666667
4       1.6
5       1.6666666666666667
6       1.75
7       1.7777777777777777
8       1.6666666666666667
9       1.6428571428571428
10      1.6875
11      1.7058823529411764
12      1.6666666666666667
13      1.6818181818181819
14      1.7083333333333333
15      1.7307692307692308
16      1.6666666666666667
17      1.6774193548387097
18      1.6571428571428573
19      1.6666666666666667
20      1.65
21      1.6666666666666667
22      1.6818181818181819
23      1.6888888888888889
24      1.6470588235294117
25      1.6415094339622642
26      1.6545454545454545
27      1.6379310344827587
28      1.6290322580645162
29      1.6349206349206349
30      1.6323529411764706
31      1.6376811594202898
32      1.6081081081081081
33      1.618421052631579
34      1.6282051282051282
35      1.6375
36      1.6091954022988506
37      1.6136363636363635
38      1.6222222222222222
39      1.6304347826086956
40      1.6122448979591837
41      1.6161616161616161
42      1.6153846153846154
43      1.619047619047619
44      1.614678899082569
45      1.6106194690265487
46      1.617391304347826
47      1.6206896551724137
48      1.596774193548387
49      1.5952380952380953
50      1.5923076923076922
51      1.5984848484848484
52      1.5955882352941178
53      1.5985401459854014
54      1.5874125874125875
55      1.5931034482758621
56      1.5827814569536425
57      1.588235294117647
58      1.5935483870967742
59      1.5961538461538463
60      1.5818181818181818
61      1.5843373493975903
62      1.5892857142857142
63      1.5872093023255813
64      1.5730337078651686
65      1.5777777777777777
66      1.5783783783783785
67      1.5806451612903225
68      1.5789473684210527
69      1.5833333333333333
70      1.583756345177665
71      1.5858585858585859
72      1.5673076923076923
73      1.569377990430622
74      1.5734597156398105
75      1.572093023255814
76      1.5707762557077625
77      1.5746606334841629
78      1.575221238938053
79      1.577092511013216
80      1.5659574468085107
81      1.5606694560669456
82      1.5643153526970954
83      1.5661157024793388
84      1.5577689243027888
85      1.5612648221343874
86      1.5647058823529412
87      1.5680933852140078
88      1.5627376425855513
89      1.5643939393939394
90      1.5567765567765568
91      1.56
92      1.5591397849462365
93      1.5622775800711743
94      1.5653710247349824
95      1.568421052631579
96      1.5559322033898304
97      1.5574324324324325
98      1.5566666666666666
99      1.555921052631579
100     1.54983922829582
101     1.5512820512820513
102     1.5520504731861198
103     1.5534591194968554
104     1.5493827160493827
105     1.5501519756838906
106     1.5528700906344411
107     1.5542168674698795
108     1.543859649122807
109     1.5451895043731778
110     1.5459770114942528
111     1.5485714285714285
112     1.541899441340782
113     1.543175487465181
114     1.543956043956044
115     1.546448087431694
116     1.545945945945946
117     1.5454545454545454
118     1.547872340425532
119     1.5502645502645502
120     1.5396419437340154
121     1.539440203562341
122     1.5417721518987342
123     1.5440806045340051
124     1.5436408977556109
125     1.5420792079207921
126     1.5375302663438257
127     1.538647342995169
128     1.5320665083135392
129     1.5342789598108748
130     1.5350467289719627
131     1.5361305361305362
132     1.5319634703196348
133     1.5340909090909092
134     1.5361990950226245
135     1.5334821428571428
136     1.5308370044052864
137     1.531868131868132
138     1.5326086956521738
139     1.5336225596529285
140     1.5297872340425531
141     1.5317796610169492
142     1.5337552742616034
143     1.5357142857142858
144     1.525562372188139
145     1.5274949083503055
146     1.5294117647058822
147     1.529175050301811
148     1.528942115768463
149     1.5298804780876494
150     1.5264187866927592
151     1.52734375
152     1.5250965250965252
153     1.524904214559387
154     1.5256166982922201
155     1.5274102079395084
156     1.5241635687732342
157     1.5250463821892393
158     1.5268022181146026
159     1.5285451197053408
160     1.5226039783001808
161     1.5243243243243243
162     1.5204262877442274
163     1.5212765957446808
164     1.5211267605633803
165     1.5218150087260034
166     1.5234782608695652
167     1.5243055555555556
168     1.5178268251273344
169     1.517766497461929
170     1.5184563758389262
171     1.5183333333333333
172     1.5182119205298013
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176     1.5160771704180065
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178     1.5191693290734825
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180     1.5124610591900312
181     1.5132192846034214
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534     1.4588983050847457
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536     1.459037162162162
537     1.459493670886076
538     1.4599494097807757
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540     1.45723821443471
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