1.1 2

1.2 4

2.1 5

2.2 6

2.3 7

2.4 (TTBI)..... 9

TTBI 10

.....11

2016 12

2016 16

2016 20

2016 100 24

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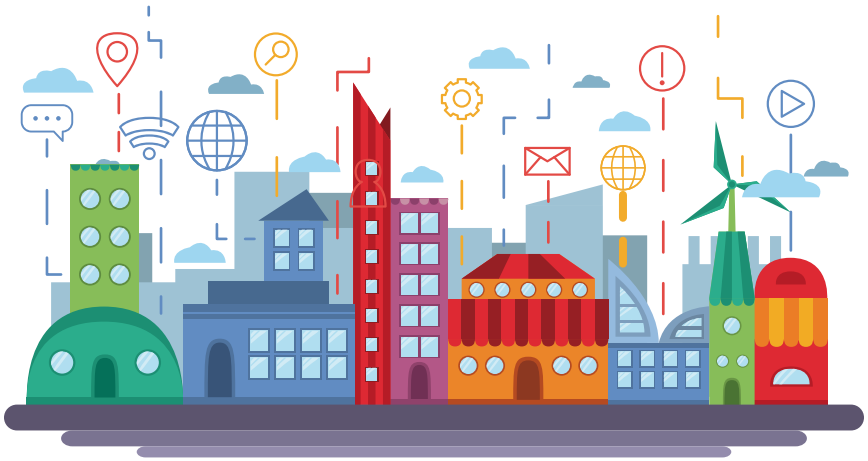
1.1

2013 “ ” 2015 1

“ ” 2015 12



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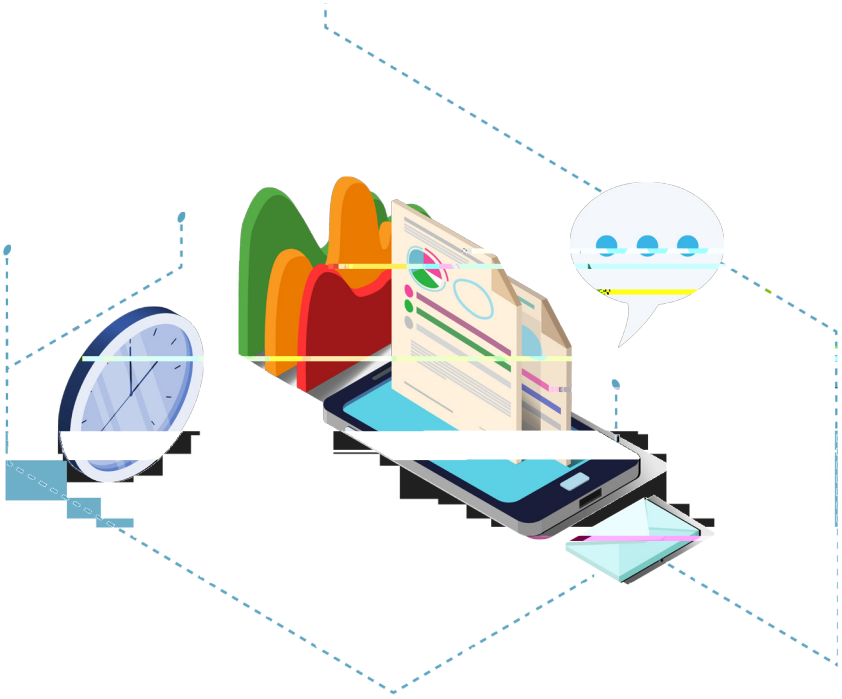

1.2

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APP

2.1

www.gsdata.cn

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APP

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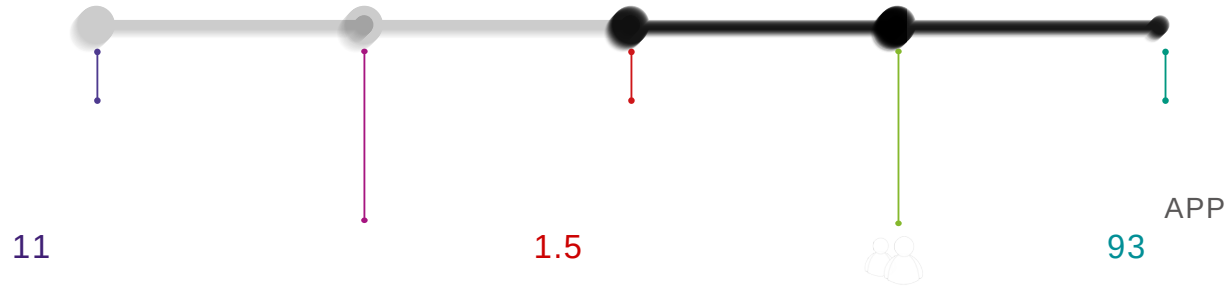
300~600GB



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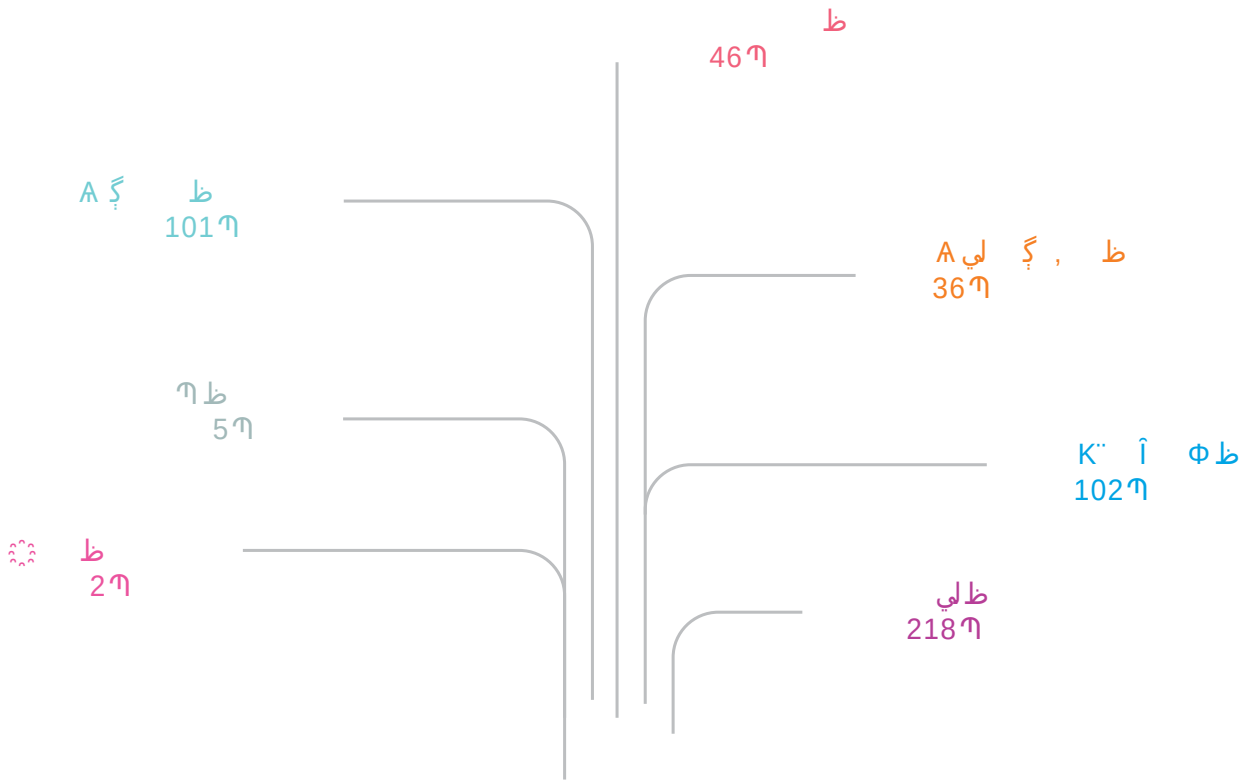

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510

2016 1 1 2016 11 20

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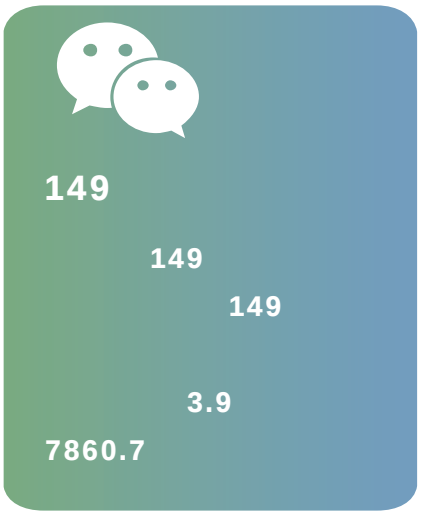
1800 149

3.9 7860.7

37.9

149



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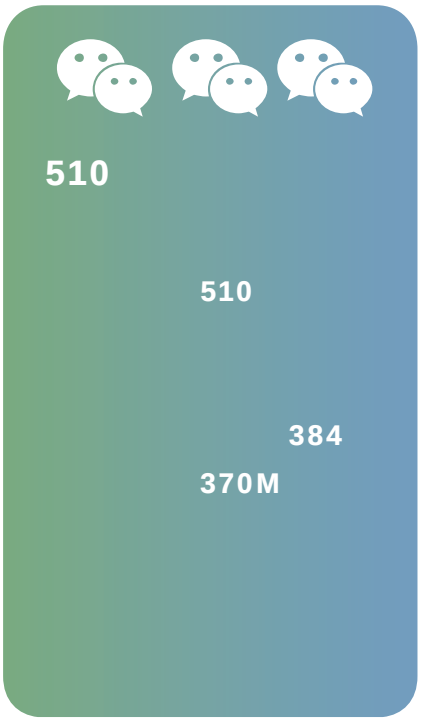

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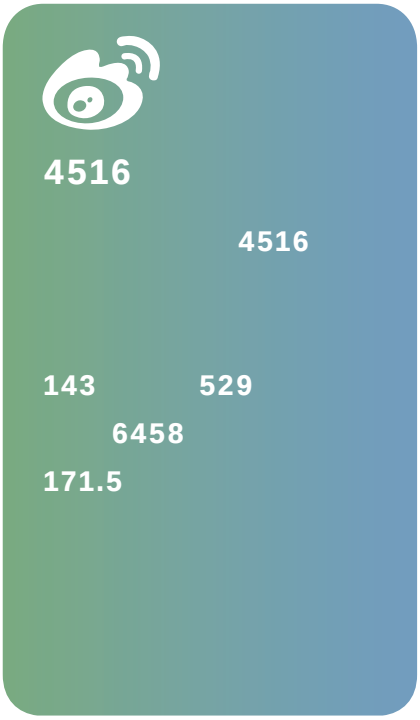
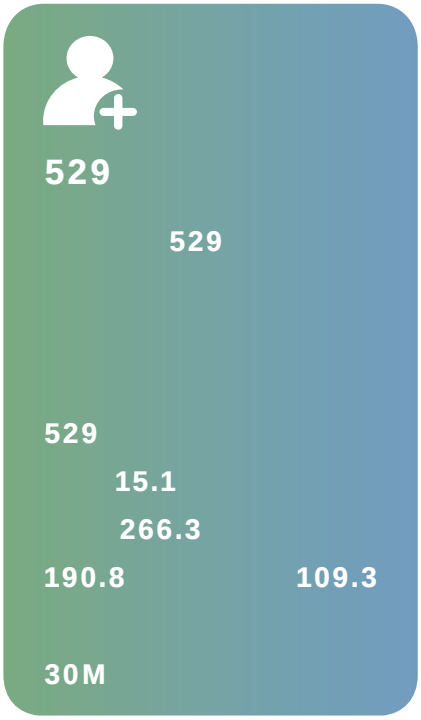
143 529 6458 171.5

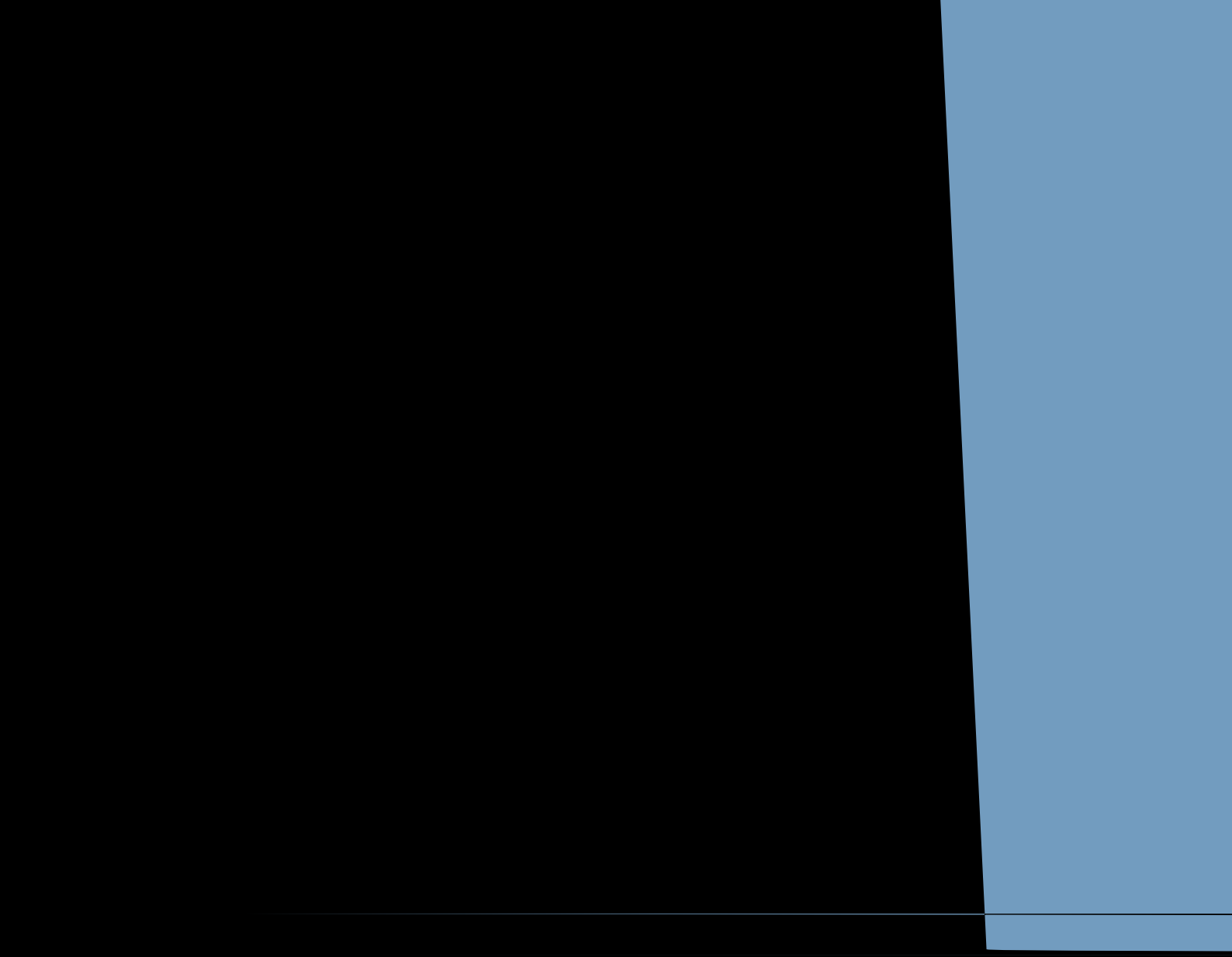
529

15.1 266.3 190.8 109.3

30M







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TTBI 4

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2016 2016 TTBI

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A++			54.5	1313	587545	4411	0.8492	4.7572	0.601
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A++			54.94	1262	769699	4753	0.9723	3.9937	0.5024
A++			56.88	1564	719771	5251	0.9569	5.0289	0.6849
A++			51.71	1034	699848	2759	0.8462	3.76	0.3112
A++			61.96	1811	3826091	17157	0.9908	5.6242	0.3998
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A++			51.7	933	899300	3019	0.9138	3.1414	0.3446
A+			50.62	512	719268	9044	1	1.5754	1.1271
A+			49.9	869	231437	2658	0.7323	3.6513	1.2536
A+			51.53	1177	162041	1830	0.6492	5.5782	1.5631
A+			48.3	354	10940	919	0.3662	2.9748	8.672
A+			48.8	698	374431	2488	0.9723	2.2089	0.6296
A+			51.6	643	1837673	6539	0.9846	2.0094	0.3226
A+			48.25	1060	165834	842	0.8677	3.7589	0.4336
A+			47.64	869	141099	1393	0.4985	5.3642	0.8439
A+			51.46	939	703017	3684	0.7569	3.8171	0.4691
A+			48.58	540	501127	6337	0.5846	2.8421	1.1761
A	21		37.56	187	152032	1597	0.4338	1.3262	1.0481
A			47.52	397	1596306	6662	0.7723	1.5817	0.4142
A			40.56	287	3012	257	0.5415	1.6307	7.1146
A			37.27	249	2976	168	0.2277	3.3649	4.9438

A			37.45	251	59627	732	0.3631	2.1271	1.3506
A			45.16	6	179	27	0.0062	3	21.1765
A			43.62	502	222243	1334	0.6831	2.2613	0.5163
A			39.23	359	85680	671	0.5569	1.9834	0.8562
A			37.22	112	77457	1845	0.1538	2.24	2.0362
A			37.67	194	25555	839	0.2523	2.3659	2.8191
A			42.85	598	65663	632	0.4092	4.4962	0.934
A			39.18	161	92251	2497	0.4646	1.0662	2.7287
A			42.29	197	9572	436	0.1138	5.3243	5.3347
A			38.51	285	113392	887	0.5385	1.6286	0.8163
A			42.7	1085	23685	129	0.56	5.9615	0.6376
A			43.24	289	464382	2836	0.8462	1.0509	0.6136
A			47.42	773	233833	1496	0.8123	2.928	0.6283
A			44.34	422	445341	2497	0.6	2.1641	0.5767
A			43.2	525	106280	1080	0.4646	3.4768	0.9549
A			43.29	250	37635	1697	0.2677	2.8736	4.4649
A			43.47	246	479285	6457	0.5077	1.4909	1.3241
A			40.14	205	203583	1404	0.1723	3.6607	0.7492
A			40.3	515	110132	356	0.5354	2.9598	0.3359
A			38.12	352	59564	241	0.2185	4.9577	0.2956
A			41.19	386	43633	946	0.3938	3.0156	1.956
A			41.71	435	129023	989	0.4554	2.9392	0.7794
A			44.62	472	220525	2010	0.7323	1.9832	0.948
A			37.63	173	309125	1824	0.4462	1.1931	0.5817
A			37.94	260	130115	769	0.6738	1.1872	0.5821
A			44.81	365	337732	4136	0.4277	2.6259	1.2349

A-			28.4	63	77485	393	0.1908	1.0161	0.5078
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A-			33.28	132	30900	349	0.1538	2.64	1.2455
A-			26.85	64	7722	82	0.0769	2.56	1.136
A-			34.07	132	7058	226	0.0985	4.125	2.2561
A-			37.14	168	18332	362	0.1292	4	2.629
A-			28.68	45	11570	321	0.0923	1.5	2.6392
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A-			25.94	56	20903	194	0.16	1.0769	1.0164
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A-			32.8	249	6760	104	0.2308	3.32	1.5926
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A-	-		34.18	177	77899	558	0.3785	1.439	0.7114
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A-			33.4	35	9145	618	0.1046	1.0294	6.7477
A-			32.92	115	19291	421	0.1631	2.1698	2.0485

2

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A++			87.85	2749684	220	80351	306.93	525.43	365.23
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A++			71.09	7080914	49511	1081030	8.03	12	21.83
A++			58.8	5290420	417	8674	0.14	33.37	20.8
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A++			61.04	1810191	5060	115829	7.32	21.82	22.89
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A++			66.32	3767672	16530				

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A			46.89	611644	271	1104	3.46	11.16	4.07
A			48.29	1571647	498	240	0.94	1.2	0.48
A			42.68	52032	4137	6340	0.39	0.42	1.53
A			40.58	98105	330	1381	1.57	2.12	4.18
A			38.41	26453	526	4524	6.65	8.66	8.6
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A			37.82	89406	352	270	0.31	1.9	0.77
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A			36.66	38725	474	810	0.47	0.67	1.71
A			37.19	48789	475	637	1.29	1.97	1.34
A			42.82	2617524	16	12	1.19	1.69	0.75
A			39.49	69155	383	1239	3.6	9.91	3.23
A			49.26	334575	1430	9508	0.89	6.88	6.65
A			43.49	110962	955	4017	0.94	0.8	4.21
A			41.84	114620	110	2606	6.71	7.55	23.69
A			44.27	69501	1168	15777	1.4	3.01	13.51
A	40		46.23	781108	91	723	2.19	11.47	7.95
A			49.58	1664199	236	733	1.44	5.45	3.11
A			44.05	145048	1650	2288	0.41	0.59	1.39
A			38.43	3828292	1	0	0	0	0
A			38.98	4013528	2	0	0	0.5	0
A			45.36	1402347	155	90	0.15	0.17	0.58
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A			36.68	81204	136	280	0.55	1.29	2.06

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A -			27.03	26989	12	20	3.33	8.92	1.67
A -			36.38	101584	52	229	0.08	1.98	4.4
A -			24.76	5778	172	47	0.17	0.3	0.27
A -			35.01	62043	174	154	0.07	0.36	0.89
A -			29.08	14175	24	233	6.63	7.38	9.71
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A -			20.54	13877	7	1	0.43	2.43	0.14
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A -			35.45	102554	177	59	0.11	0.08	0.33
A -			35.75	25610	1101	716	0.47	0.91	0.65
A -			30.1	17388	145	135	0.53	0.58	0.93
A -			33.58	21666	1080	246	0.43	0.58	0.23
A -			29.14	15688	294	58	0.19	0.4	0.2
A -	-		25.15	9955	18	61	0.17	1.5	3.39
A -			25.15	11388	79	18	0.15	0.25	0.23
A -	-		27.1	9408	145	78	0.61	0.82	0.54
A -			33.99	25294	419	375	1.75	3.74	0.89
A -			28.25	63992	15	5	0.33	1.47	0.33
A -			29.28	9505	701	129	0.07	0.7	0.18
A -									

A-			23.18	5179	69	35	0.49	2.96	0.51
A-	( )		22.55	55680	0	0	0	0	0
A-			32.86	97729	23	36	1.57	2.65	1.57
A-			26.65	46235	30	2	0	0.1	0.07
A-			29.44	56631	50	8	0.3	0.62	0.16
A-			23.54	5295	35	66	0.26	1.66	1.89
A-			22.61	11748	20	6	0.95	0.3	0.3
A-			35.5	30846	948	406	0.32	3.04	0.43
A-			32.09	19356	168	342	3.03	1.69	2.04
A-			20.86	34746	0	0	0	0	0
A-	50		28.29	8413	258	166	0.35	0.2	0.64
A-			33.8	2988	156	411	1.33	1.51	2.63
A-									

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A++			88.77	19719	34815673	232539	0.4339
A++			89.44	22462	32020831	227561	0.4396
A++			92.31	32839	53590187	345535	0.4145
A++			89.85	22631	36149013	311549	0.4289
A++	40		88.96	23212	34153654	170835	0.4284
A++	50		91.34	20440	46281941	758667	0.4354
A++			88.8	28316	15479586	159880	0.4444
A++			89.14	25720	35514036	177409	0.4132
A++			90.38	29617	36298833	126289	0.4424
A++			89.64	28870	31727889	181319	0.4157
A+			87.34	18591	32671570	185601	0.4136
A+			87.42	17884	28893051	374932	0.3983
A+			87.77	21323	22726345	171756	0.4313
A+			87.19	19680	22462506	148014	0.4337
A+			88.63	20153	30053477	231001	0.4357
A+			87.98	23058	30338362	229778	0.3933
A+			87.9	19753	26920470	188833	0.4327
A+			87.91	19635	23524362	246324	0.4303
A+			87.88	20391	30759303	281990	0.4002
A+			87.63	19715	30679694	301769	0.395
A			84.66	13869	22072459	179786	0.4053
A			83.98	14280	13790048	113103	0.4304
A			85.74	14853	21165384	138421	0.4418
A			83.74	11830	19565309	159870	0.4156

A			86	19681	20155388	107862	0.4185
A			85.47	21279	16533548	94034	0.4083
A			86.12	24130	18505961	85758	0.4048
A			85.37	19738	21407265	102502	0.3973
A			86.54	21207	14828832	102231	0.4447
A			83.73	15746	20886969	107928	0.3826
A			86.41	21751	16176771	90219	0.4369
A			85.76	17155	19521398	124110	0.4292
A			85.94	17009	21819625	110501	0.4342
A			83.89	15777	13295760	73278	0.4335
A	( )		86.64	17618	21301921	178907	0.4296
A			84.82	16080	23005725	97086	0.4113
A			86.16	19738	21096258	143947	0.4068
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A			85.4	18524	19775245	127433	0.4034
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A			86.99	18928	25701393	194247	0.4131
A			85.88	16193	30337006	176943	0.3981
A			85.22	19701	12261210	109178	0.4254
A			85.47	15879	24964745	153092	0.4078
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A-			83.2	10850	14038727	114480	0.4495
A-			82.36	11089	17233073	102256	0.412
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A-			81.79	12838	10618141	59414	0.4261
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A -			83.39	15657	18547269	97679	0.3853
A -			82.39	12324	18924731	80140	0.4011
A -			82.48	12692	11446832	72786	0.4353
A -			82.13	12263	13872368	83304	0.4117
A -			83	9912	26180953	105832	0.422
A -			82.09	9908	15187414	94698	0.4337
A -			82.04	10889	12453189	99292	0.4272
A -			83.54	11460	18917325	148537	0.4202
A -			82.13	9046	21396671	115691	0.4189
A -			82.48	11853	15403706	91608	0.417
A -			82.49	12337	13179923	87478	0.4229
A -			82.04	9910	16264595	58977	0.4491
A -			81.92	11131	12517652	71033	0.4347
A -			82.14	10812	13234061	88675	0.4326
A -			82.31	11542	18430287	117110	0.3936
A -			83.64	15544	15228681	76205	0.4178
A -			82.21	9877	14162663	139489	0.4247
A -			81.75	11202	9578129	73740	0.4437
A -			83.65	14520	11461517	78682	0.4458
A -			82.81	11339	17281909	133418	0.41

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			TTBI			
A++			62.05	51.53	54.07	80.55
A++			61.22	66.59	35.75	81.3
A++			62.81	54.94	61.2	72.29
A++			62.59	56.88	48.29	82.61
A++			63.08	43.47	57.87	87.9
A++			59.3	48.25	43.49	86.16
A++	40		62.47	52.21	46.23	88.96
A++			67.87	47.64	67.18	88.8
A++			66.5	51.46	61.04	86.99
A++			63.06	37.63	66.32	85.22
A+	21		57.1	37.56	51.6	82.15
A+			57.55	34.07	51.16	87.42
A+			54.53	43.62	39.8	80.17
A+			55.48	34.57	51.31	80.54
A+			56.01	25.24	54.15	88.63
A+			58.61	0	87.85	87.98
A+			58.31	61.96	42.82	70.16
A+			54.75	51.7	22.93	89.64
A+			56.91	44.81	40.75	85.16
A+			56.02	48.58	36.68	82.81
A			50.17	37.45	29.08	83.98
A			52.16	49.9	37.34	69.25
A			46.6	58.97	0	80.83

			TTBI			
A			45.46	0	57.36	79.02
A			46.38	30.62	24.8	83.74
A			45.8	0	54.59	82.8
A			49.39	54.5	7.15	86.54
A			44.79	53.75	0	80.62
A			45.22	34.22	20.54	80.91
A			48.79	32.8	34.76	78.79
A			44.68	25.21	79.69	29.14
A			49.43	25.08	42.68	80.53
A			48.03	24.33	38.41	81.37
A			52.19	51.6	22.87	82.09
A			45.94	34.56	35.12	68.15
A			44.79	0	49.55	84.82
A			51.41	40.14	37.19	76.9
A			45.57	38.12	26.65	71.95
A			46.59	0	53.05	86.71
A			45.29	0	57.02	78.85
A			47.32	26.61	29.44	85.91
A			46.84	28.99	44.27	67.25
A			49.57	21.98	54.74	71.99
A			51.6	0	71.09	83.71
A			45.73	0	58.8	78.41
A			47.78	0	77.33	66.02
A			51.66	41.71	29.45	83.81
A			45.25	0	45.36	90.38
A			45.64	30.22	25.8	80.92

TTBI						
A -			42.38	29.91	79.73	17.51
A -			39.07	43.2	74.01	0
A -			39.98	31.69	76.07	12.19
A -	( )		41.97	36.39	80.46	9.05
A -			38.66	0	79.32	36.66
A -			40.65	0	82.48	39.49
A -			43.92	0	82.49	49.26
A -			42.95	15.39	80.59	32.86
A -			39.34	0	76.17	41.84
A -			40.78	40.3	82.04	0
A -			43.03	41.19	87.91	0
A -			39.59	0	86.69	32.09
A -	50		39.88	0	91.34	28.29
A -			42.42	0	77.67	49.58
A -			38.5	21.76	58.49	35.24
A -			42.52	13.87	69.64	44.05
A -			37.95	0	87.88	25.97
A -			42.71	0	89.14	38.98
A -			39.14	0	55.05	62.36
A -			43.5	44.62	85.88	0
A -			40.32	31.14	67.73	22.1
A -			39.7	0	83.64	35.45
A -			39.23	0	79.32	38.38
A -			42.84	37.94	87.63	2.94
A -			38.34	33.27	81.75	0

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