Algorithm	prob	n	t	n_it	f_opt	g_norm	fevals	gevals	nfails	co
QPS-roma	GENROSE	500	2.34458	1026	1	0.000429746	53435	1028	2	-0.99
scipy_lbfgs	GENROSE	500	0.132893	1076	1	0.000905173	1312	1312	nan	
QPS-roma	ARWHEAD	5000	0.0783455	6	0	3.67887e-05	237	8	1	-0.096
scipy_lbfgs	ARWHEAD	5000	0.0262294	12	6.4591e-09	0.000754085	14	14	nan	
QPS-roma	BROYDN7D	5000	24.9955	1360	1960	0.000706245	75744	1362	1	-0.78
scipy_lbfgs	BROYDN7D	5000	2.39349	1636	1987.57	0.000927399	1670	1670	nan	
QPS-roma	CRAGGLVY	5000	0.991645	56	1688.22	0.000826078	2780	58	1	-0.16
scipy_lbfgs	CRAGGLVY	5000	0.0997813	60	1688.22	0.000827982	73	73	nan	
QPS-roma	DIXMAANA	3000	0.0164485	5	1.00003	0.000281375	120	7	1	-1.5226
scipy_lbfgs	DIXMAANA	3000	0.00718546	9	1.00026	0.00080197	11	11	nan	
QPS-roma	DIXMAANB	3000	0.0121608	5	1	5.31059e-05	90	7	1	
scipy_lbfgs	DIXMAANB	3000	0.00743198	9	1.00001	0.000615803	11	11	nan	
QPS-roma	DIXMAANC	3000	0.0135934	5	1	0.000456669	95	7	1	
scipy_lbfgs	DIXMAANC	3000	0.010143	11	1	8.29907e-05	13	13	nan	
QPS-roma	DIXMAAND	3000	0.0230906	6	1	5.37187e-06	153	8	1	-0.18
scipy_lbfgs	DIXMAAND	3000	0.00937915	12	1.00001	0.000701989	14	14	nan	
QPS-roma	DIXMAANE	3000	0.402988	65	1.00048	0.000978595	2853	67	1	-0.12
scipy_lbfgs	DIXMAANE	3000	0.0617452	76	1.00121	0.000874208	81	81	nan	
QPS-roma	DIXMAANF	3000	0.165974	28	1.00054	0.000972261	1193	30	1	-0.74
scipy_lbfgs	DIXMAANF	3000	0.0313232	46	1.00084	0.000927275	49	49	nan	
QPS-roma	DIXMAANG	3000	0.172819	29	1.00048	0.000875045	1263	31	1	-0.69
scipy_lbfgs	DIXMAANG	3000	0.0300264	50	1.00061	0.000738805	52	52	nan	
QPS-roma	DIXMAANH	3000	0.148789	25	1.00049	0.000962532	1035	27	1	-0.62
scipy_lbfgs	DIXMAANH	3000	0.0280533	43	1.00097	0.000965907	46	46	nan	
QPS-roma	DIXMAANI	3000	0.547683	86	1.00192	0.000989529	3858	88	1	-0.87
scipy_lbfgs	DIXMAANI	3000	0.0562654	96	1.01126	0.000910887	100	100	nan	
QPS-roma	DIXMAANJ	3000	2.03851	275	1.15385	0.000937468	14657	277	1	-0.9
scipy_lbfgs	DIXMAANJ	3000	0.0252912	38	1.00065	0.000532064	42	42	nan	
QPS-roma	DIXMAANK	3000	0.184305	30	1.00044	0.000425595	1322	32	1	-0.88
scipy_lbfgs	DIXMAANK	3000	0.0188982	30	1.00153	0.000647089	33	33	nan	
QPS-roma	DIXMAANL	3000	1.33179	166	2.47325	0.00079413	9657	168	1	-0.88
scipy_lbfgs	DIXMAANL	3000	0.0246499	37	1.0003	0.000829973	40	40	nan	
QPS-roma	DIXMAANM	3000	0.668901	105	1.00604	0.000979507	4781	107	1	-0.94
scipy_lbfgs	DIXMAANM	3000	0.0570159	95	1.01035	0.000829783	100	100	nan	
QPS-roma	DIXMAANN	3000	0.334639	51	1.00171	0.000975294	2380	53	1	-0.86
scipy_lbfgs	DIXMAANN	3000	0.0286756	46	1.00305	0.00083068	48	48	nan	
QPS-roma	DIXMAANO	3000	0.27018	42	1.003	0.000909982	1919	44	1	-0.70
scipy_lbfgs	DIXMAANO	3000	0.0340197	56	1.00089	0.000765005	60	60	nan	
QPS-roma	DIXMAANP	3000	0.249324	38	1.00271	0.000991984	1766	40	1	-0.98
scipy_lbfgs	DIXMAANP	3000	0.0273621	43	1.00194	0.00086149	46	46	nan	
QPS-roma	EDENSCH	10000	0.362885	17	60003.3	0.000802499	708	19	1	-0.91
scipy_lbfgs	EDENSCH	10000	0.0717289	25	60003.3	0.000815028	31	31	nan	
QPS-roma	ENGVAL1	5000	0.101392	14	5548.67	0.000388842	484	16	1	-0.75
scipy_lbfgs	ENGVAL1	5000	0.0163531	15	5548.67	0.000599333	17	17	nan	
QPS-roma	FLETCHCR	1000	0.352304	124	2.08038e-07	0.000916452	5682	126	1	-0.74
scipy_lbfgs	FLETCHCR	1000	1.04107	4917	2.64187e-09	0.000529303	5820	5820	nan	
QPS-roma	FMINSURF	5625	2.93851	237	1.00091	0.000841384	12291	239	0	-2.3940
scipy_lbfgs	FMINSURF	5625	0.271282	174	1.01839	0.000997127	178	178	nan	
QPS-roma	LIARWHD	5000	0.0790882	14	7.07327e-07	4.76275e-05	386	16	3	-0.99
scipy_lbfgs	LIARWHD	5000	0.0230055	23	1.03873e-15	6.52013e-06	27	27	nan	
QPS-roma	NCB20	5010	11.4089	210	-1130.87	0.000636807	10954	212	1	-0.010
scipy_lbfgs	NCB20	5010	0.709738	174	-1204.23	0.000648772	198	198	nan	
QPS-roma	NONCVXU2	5000	40.2561	3325	11584.5	0.000981228	163863	3327	0	-6.0643
scipy_lbfgs	NONCVXU2	5000	4.02718	3385	11584.2	0.000899666	3466	3466	nan	
QPS-roma	NONCVXUN	5000	61.5781	5000	11605.4	0.00615398	247037	5002	0	-3.3866
scipy_lbfgs	NONCVXUN	5000	6.1397	5000	11594.1	0.00472194	5110	5110	nan	
QPS-roma	NONDIA	5000	0.00953722	5	0.000257447	0.000256462	37	7	1	
scipy_lbfgs	NONDIA	5000	0.00784063	4	0.000257072	0.00025656	5	5	nan	
QPS-roma	NONDQUAR	5000	0.793645	128	0.000335406	0.000928546	7496	130	1	-0.98
scipy_lbfgs	NONDQUAR	5000	0.0629423	103	0.000344713	0.00097921	118	118	nan	
QPS-roma	POWELLSG	5000	0.0548668	15	0.00364847	0.000731336	487	17	2	-0.55
scipy_lbfgs	POWELLSG	5000	0.0184338	26	0.000574127	0.000241881	28	28	nan	
QPS-roma	POWER	10000	2.19122	281	1.94444e-05	0.000987345	16049	283	1	-0.99
scipy_lbfgs	POWER	10000	0.310971	307	1.73577e-05	0.000946771	314	314	nan	
QPS-roma	SCHMVETT	5000	0.376673	22	-14994	0.000770141	921	24	1	-0.99
scipy_lbfgs	SCHMVETT	5000	0.0506403	27	-14994	0.000647497	29	29	nan	
QPS-roma	SROSENBR	5000	0.0243247	6	2.37137e-12	9.72065e-07	221	8	1	-0.99
scipy_lbfgs	SROSENBR	5000	0.0117712	16	7.52942e-08	0.000119951	17	17	nan	
QPS-roma	TOINTGSS	5000	0.0240901	1	10.002	1.42109e-14	106	3	0	
scipy_lbfgs	TOINTGSS	5000	0.0187006	13	10.002	0.000364092	17	17	nan	
QPS-roma	TQUARTIC	5000	0.015296	1	0.806135	0.000343907	109	3	0	
scipy_lbfgs	TQUARTIC	5000	0.0173063	18	9.28792e-14	3.97812e-05	26	26	nan	
QPS-roma	VAREIGVL	5000	0.443818	36	1.64003e-05	0.000812879	1506	38	1	-0.87
scipy_lbfgs	VAREIGVL	5000	0.0245726	15	1.11792e-07	0.000871173	19	19	nan	
QPS-roma	WOODS	4000	0.244324	37	2.58268e-05	0.000797072	2090	39	1	-0.9
scipy_lbfgs	WOODS	4000	0.0592883	87	5.67533e-07	0.000319947	114	114	nan	